20011118.qrp v02_n377.qrl.20011118

Date: Sun, 18 Nov 2001 19:03:10 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2377

QRP-L Digest 2377

Topics covered in this issue include:

  1) [112014] WTB: AEA Isoloop
     by David Adams <david@theadamsclan.com>
  2) [112015] MP-1 dipole
     by David Adams <david@theadamsclan.com>
  3) [112016] Re: QRP ARCI subscriptions- time to renew?
     by "Mark A. Andrews" <KE4IOF@KE4IOF.com>
  4) [112017] MFSK stuff & satellite entertainment channels
     by nilsbull@juno.com
  5) [112018] test unable to post
     by "jman0iin@home.com" <jman0iin@home.com>
  6) [112019] Re: test unable to post
     by RangerSF5@aol.com
  7) [112020] Testing Antenna @115z
     by "jman0iin@home.com" <jman0iin@home.com>
  8) [112021] Testing Antenna @115z
     by "jman0iin@home.com" <jman0iin@home.com>
  9) [112022] Didn't do the test
     by "jman0iin@home.com" <jman0iin@home.com>
 10) [112023] Antenna, the continuing story...
     by "Mike Yetsko" <myetsko@insydesw.com>
 11) [112024] 5/8 wave Vertical
     by Jfelts202@aol.com
 12) [112025] Re: 5/8 wave Vertical
     by "w8diz" <w8diz@fpqrp.com>
 13) [112026] Re: Testing Antenna @new time 235z
     by "jman0iin@home.com" <jman0iin@home.com>
 14) [112027] O'scope & valve tester <grin> for sale......
     by "Michael Melland" <w9wis@charter.net>
 15) [112028] Testing Antenna @should've been 330z
     by "jman0iin@home.com" <jman0iin@home.com>
 16) [112029] FUN TT2 QSO!
     by "Steve/n0tu" <n0tu@webaccess.net>
 17) [112030] Re: 5/8 wave Vertical
     by "George, W5YR" <w5yr@att.net>
 18) [112031] Re: 5/8 wave Vertical
     by "George, W5YR" <w5yr@att.net>
 19) [112032] Re: [ELMER 101]

by kb1dxc@discovernet.net (kb1dxc)
20) [112033] Warbler Woes
by "Michael C. Boatright" <ko4wx@mindspring.com>
21) [112034] (Not) The Weakest Links
by "Rich Dailey, KA8OKH" <okh.npi@gte.net>
22) [112035] OT: Leonids tip
by "Rich Dailey, KA8OKH" <okh.npi@gte.net>
23) [112036] K1-4 in progress
by "Gary O. Lyons" <drgary@urx.com>
24) [112037] Fwd: Re: 5/8 wave Vertical - Tuning Them
by "Ed Manuel (N5EM)" <n5em@flash.net>
25) [112038] Need *Slashed ZERO* Font
by Doc <70511.3041@compuserve.com>
26) [112039] For Sale--Two QRP Kits
by Doc <70511.3041@compuserve.com>
27) [112040] Two QRP Kits--spoken for
by Doc <70511.3041@compuserve.com>
28) [112041] Hello.....anybody there?
by Mark Fields <mark_ke5my@juno.com>
29) [112042] (OT) Re: Is it True? Is it Necessary? Is it Kind?
by Thomas Upton <stjohn@ocsnet.net>
30) [112043] Tiny-Tornado Kit Update
by "Brice D. Hornback" <bdh@cyberbound.net>
31) [112044] Re: Need *Slashed ZERO* Font
by "blinn" <blinn@smgazette.com>
32) [112045] Fwd: QRP in SS from KL7Y
by Jim Larsen AL7FS <AL7FS@ARRL.NET>
33) [112046] Re: Hello.....anybody there?
by "Trevor Jacobs" <fxtech@earthlink.net>
34) [112047] Re: No More Scouts?Ten-Tec making mistake
by "bam yb0ko/1 SOETRISNO" <unclebam@indosat.net.id>
35) [112048] Re: [Elmer 101] class
by kb1dxc@discovernet.net (kb1dxc)
36) [112049] Re: Leonids tip
by "Dave Fifield" <dave@redhotradio.com>
37) [112050] Meteors Galorious!
by "Steve/n0tu" <n0tu@webaccess.net>
38) [112051] Re: Meteors Galorious!
by "Karl F. Larsen" <k5di@zianet.com>
39) [112052] Re: Ten-Tec making mistake
by DK3RED@t-online.de (Ingo, DK3RED)
40) [112053] Re: 5/8 wave Vertical - Tuning Them
by "carl seyersdahl" <carlseye@tampabay.rr.com>
41) [112054] Re: Meteors Galorious!
by "Roger J. Wendell" <zeekzilch@juno.com>
42) [112055] Leonid over my house
by John Harper AE5X <ae5x@qsl.net>
43) [112056] Re: Meteors Galorious!

by IamSF5@aol.com
44) [112057] FS
by Dave Pomeroy <dave@dpomeroy.com>
45) [112058] RE: FUN TT2 QSO!
by "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
46) [112059] Re: Meteors Galorious!
by "Brian Murrey" <brian@iquest.net>
47) [112060] Large Altoids Tin
by "Ron Polityka" <wb3aal@fast.net>
48) [112061] Super Tick Question
by "Brian Murrey" <brian@iquest.net>
49) [112062] Meteor shower
by "David & Jo Ann Lininger" <djlinin@positech.net>
50) [112063] RE: FUN TT2 QSO!
by Nick Kennedy <nkennedy@tcainternet.com>
51) [112064] Re: Leonids
by "Karl Rifenbark" <n7dma@mindspring.com>
52) [112065] [Elmer 101] Anti-Static Mat
by "Steve Thompson" <steve@xcvr.com>
53) [112066] Corrected and FINI FOX log#5 rev6
by "Steve/n0tu" <n0tu@webaccess.net>
54) [112067] Re: Meteor shower
by Michael Fletcher <kl7ixi@home.com>
55) [112068] Re: Meteor shower
by "Rich Wilkerson" <richqrp@home.com>
56) [112069] Re: [Elmer 101] class
by Michael Fletcher <kl7ixi@home.com>
57) [112070] Re: [Elmer 101] class
by mikemo@attglobal.net
58) [112071] [Elmer 101] kits on the way
by mikemo@attglobal.net
59) [112072] Re: Corrected and FINI FOX log#5 rev7
by "Steve/n0tu" <n0tu@webaccess.net>
60) [112073] Re: Corrected and FINI FOX log#5 rev7
by "George, W5YR" <w5yr@att.net>
61) [112074] FW: [drakelist] FS: WH-7 Wattmeter
by "Ed Tanton" <n4xy@att.net>
62) [112075] A tunable tuna? VFO for the TT2/80 (Extra Long)
by Nick Kennedy <nkennedy@tcainternet.com>
63) [112076] D-Region Prediction Sample Movie
by "Rod N0RC" <rod@n0rc.com>
64) [112077] Re: A tunable tuna? VFO for the TT2/80 (Extra Long)
by "Mike Malone" <mmalone@worldlogon.com>
65) [112078] Re: Tiny-Tornado Kit Update
by Donn Kuse <casey.jay@gte.net>
66) [112079] Re: Meteor shower
by Dave Fouchey <dafouchey@home.com>
67) [112080] Digital Multimeter

by Donn Kuse <casey.jay@gte.net>
68) [112081] SS Update.
by wb0wao@hotmail.com (Dennis Ponsness)
69) [112082] Serious problem
by "Karl F. Larsen" <k5di@zianet.com>
70) [112083] Solder Hazards
by "stan mcintosh" <mcintosh@triad.rr.com>
71) [112084] Re: [OP] QRP DXCC Suggestions?
by Jim Lowman <jmlowman@directvinternet.com>
72) [112085] Re: Hello.....anybody there?
by "Howard Kraus" <K2UD@adelphia.net>
73) [112086] Re: Serious problem
by "George, W5YR" <w5yr@att.net>
74) [112087] FS: Like New Power Pocket 2.0 amp @ 12vdc
by "Alan" <jcs4us@earthlink.net>
75) [112088] Coax Loss
by "James R. Duffey" <jamesd1@flash.net>
76) [112089] Tuna -Tin 2 Fun
by "James R. Duffey" <jamesd1@flash.net>
77) [112090] Results of my antenna topic/Read questions at the botttom
by IamSF5@aol.com
78) [112091] FS mfj 422 keyer
by paul <ptay1253@yahoo.com>
79) [112092] Digital Multimeter
by Donn Kuse <casey.jay@gte.net>
80) [112093] Re: Solder Hazards
by "stan mcintosh" <mcintosh@triad.rr.com>
81) [112094] Re: Serious problem
by "Brice D. Hornback" <bdh@cyberbound.net>
82) [112095] XE1ELA Very strong on 28.061 21:16 UTC
by "Trevor Jacobs" <fxtech@earthlink.net>
83) [112096] [Elmer101] Kit arrived
by "Jerry McDermand" <mcdermand@att.net>
84) [112097] Where'd everyone go?
by Bill Stietenroth <k5zty@juno.com>
85) [112098] Re: Serious problem
by IamSF5@aol.com
86) [112099] HC8N on 21.027.9
by Doc <70511.3041@compuserve.com>
87) [112100] Re: [OP] QRP DXCC Suggestions?
by Bob Nielsen <nielsen@oz.net>
88) [112101] KL7 on 6 meters
by NM5Mike@aol.com
89) [112102] 1:1 Baluns Voltage or Current?
by "James R. Duffey" <jamesd1@flash.net>
90) [112103] Re: Tuna -Tin 2 Fun
by "Steve/n0tu" <n0tu@webaccess.net>
91) [112104] Re: KL7 on 6 meters

    by W2AGN <w2agn@pobox.com>
 92) [112105] Re: Serious problem
    by "Bill Jones" <kd7s@psnw.com>
 93) [112106] HC8N on 24.892 @ 2122
    by Doc <70511.3041@compuserve.com>
 94) [112107] OOPS--HC8N at *2212Z*
    by Doc <70511.3041@compuserve.com>
 95) [112108] Re: Need *Slashed ZERO* Font
    by "Anthony A. Luscre" <aluscre@neo.rr.com>
 96) [112109] Re: Tuna -Tin 2 Fun
    by "James R. Duffey" <jamesd1@flash.net>
 97) [112110] Re: Serious problem
    by Bob Nielsen <nielsen@oz.net>
 98) [112111] Guys and Jo SSTV_PLUS PROGRESS REPORT
    by hamjoel@juno.com
 99) [112112] Re: Where'd everyone go?
    by "carl seyersdahl" <carlseye@tampabay.rr.com>
100) [112113] Re: Where'd everyone go?
    by "Rod N0RC" <rod@n0rc.com>
101) [112114] Re: Where'd everyone go?
    by "John J. McDonough" <wb8rcr@arrl.net>
102) [112115] Oh I forgot!
    by "John J. McDonough" <wb8rcr@arrl.net>
103) [112116] F6AUS/HI9 on 18.074.75 @ 2255
    by Doc <70511.3041@compuserve.com>
104) [112117] RE: F6AUS/HI9 on 18.074.75 @ 2255
    by "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
105) [112118] Leonid meteors over NM
    by "Paul Harden, NA5N" <na5n@rt66.com>
106) [112119] Re: IRF510 vs. IRF511??
    by "Paul Harden, NA5N" <na5n@rt66.com>
107) [112120] F6AUS/HI9 on 10.104.85 @ 2323Z
    by Doc <70511.3041@compuserve.com>
108) [112121] Re: Where'd everyone go?
    by "Howard Kraus" <K2UD@adelphia.net>
109) [112122] Re: Serious problem
    by "bob baxter" <rbaxter@cybertrails.com>

Date: Sat, 17 Nov 2001 15:59:01 -0800
From: David Adams <david@theadamsclan.com>
To: qrp-l@lehigh.edu
Subject: [112014] WTB: AEA Isoloop
Message-ID: <3BF6F9C5.7010609@theadamsclan.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Greetings! For the last few years, I have been using an AEA Isoloop antenna to keep my signal in the ether. Unfortunately, my isoloop is held together with COPIUS amounts of grey tape and is unlikely to survive the move to michigan. Therefore, if anyone has an unused isoloop that they would like to sell for a pittance or give away, let me know. I'm currently in the SF Bay area and moving to the Ann Arbor area for those who don't want to ship.

If I can't find a new loop, I do have the AEA autotuner for the isoloop. I'll be selling that for $100, so if you are interested, let me know.

73 de dave, n9uxu

Date: Sat, 17 Nov 2001 16:00:40 -0800
From: David Adams <david@theadamsclan.com>
To: qrp-l@lehigh.edu
Subject: [112015] MP-1 dipole
Message-ID: <3BF6FA28.3090104@theadamsclan.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Anyone ever try two MP-1s back to back for a very flexible, but very expensive dipole antenna? Seems like an apartment compatible sort of arrangement...

73 de dave, n9uxu

Date: Sat, 17 Nov 2001 18:06:24 -0600
From: "Mark A. Andrews" <KE4IOF@KE4IOF.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112016] Re: QRP ARCI subscriptions- time to renew?
Message-ID: <002701c16fc4$df7451e0$0aef4cd8@carrera>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Speaking of QQ.. Any idea when the October issue is going to press?

73,

Mark

Mark A. Andrews, KE4IOF
QRP-L 146 QRP-ARCI 10574
www.KE4IOF.com

PRL 3.0 for Palm Handhelds

> You don't want to miss an issue of the QQ magazine
>
> You can also check the mailing label on your QQ when it arrives...the
> label gives the expiration date of your subscription.
>
>
> 72 Mark KQ0I - #2667
> Secretary-Treasurer QRP ARCI
> ICQ 133862108 IM markkq0i
>

Date: Sat, 17 Nov 2001 19:01:45 -0500
From: nilsbull@juno.com
To: QRP-L@lehigh.edu
Subject: [112017] MFSK stuff & satellite entertainment channels
Message-ID: <20011117.190812.-407189.0.nilsbull@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

I just had a Q with Silvano, IK0RFV in Italy, running MFSK. It went like this: I heard somebody crankin' along on MFSK on 20m (10m had given up the ghost by then) so I tuned down. There were a few PSK stations on too. Now you have to understand that I'm using the ol' TR7 that followed me home from Drake over 20 years ago. It's clunky by hot-shot postmodernist standards, but it works. And it has PBT, which I have found to be really sweet if you're crazy enough to do like I do with it.

So there's traffic, nice and loud, but as I swing the PBT through the >6 kHz that it'll travel, I hear this tiny little burble of MFSK. So I get that signal down from the audio range of bats and the cat that's half crazy from nip & dagnab if it don't print out perfect on the screem. I mean, seriously, this was a weak signal. Only my ears & the little wiggles that showed up in the fuzz on the "waterfall" told me it was

there.

So I had a Q with the guy! No kiddin'! It flipped me out, being able to have a Q at about 8 W with a guy who I couldn't hardly hear with my jaded ears!

And to think I turned down a $100 lap top with built in sound 'cause it didn't have a CD drive so I could load software on it! Maybe it's still there . . . At the university surplus store . . . And maybe nobody will notice that I'm sittin' on the beach with a bottle of Absolut in one hand & the lap top and the radio runnin' off a solar panel and the beach umbrella as an antenna next summer when I'm on vacation . . .

Yeah, right.

Seriously, I think I'm gonna do some more of this silly wiggly-sigly stuff. Who knows? I may even talk to Elvis!

73

Nils
 . . . any hints on where I should start reading up on satellite downlinks for entertainment channels? Like I wanna hear TRT clear & pretty on the high-fly downstairs . . . books for beginners kinda stuff . . .

Nils R. Bull Young -- El Gringo Errante -- La Estancia de los Guajolotes Sonrientes
W8IJN -- http://www.geocities.com/nilsbull/w8ijn
"In MY day we FIGHT to have earphones! Every DAY was STRUGGLE!"
                          -- Comrade Nikolai Sergeievich McTovarishov, 19 Oct 1917

Date: Sat, 17 Nov 2001 19:18:22 -0500
From: "jman0iin@home.com" <jman0iin@home.com>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [112018] test unable to post
Message-ID: <RELAY19rS3vdIz90Qo4000014de@relay1.softcomca.com>
Content-Transfer-Encoding: Quoted-Printable
MIME-Version: 1.0
Content-Type: text/plain;

```
        charset="iso-8859-1"

test

Jason KC0IIN

------------------------------------------------------------------------
mail2web - Check your email from the web at
http://mail2web.com/ .


------------------------------

Date: Sat, 17 Nov 2001 19:30:28 EST
From: RangerSF5@aol.com
To: jman0iin@home.com, qrp-l@lehigh.edu
Subject: [112019] Re: test unable to post
Message-ID: <11e.79138d5.29285b24@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 11/17/01 7:20:15 PM Eastern Standard Time,
jman0iin@home.com writes:

<<
 test

 Jason KC0IIN
  >>
599 HERE
Bob
WA2HOQrp <tm>

------------------------------

Date: Sat, 17 Nov 2001 19:43:02 -0500
From: "jman0iin@home.com" <jman0iin@home.com>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [112020] Testing Antenna @115z
Message-ID: <RELAY20nzlk81ZXfMIx0000115e@relay2.softcomca.com>
Content-Transfer-Encoding: Quoted-Printable
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
```

---
mail2web - Check your email from the web at
http://mail2web.com/ .

Date: Sat, 17 Nov 2001 19:46:37 -0500
From: "jman0iin@home.com" <jman0iin@home.com>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [112021] Testing Antenna @115z
Message-ID: <RELAY1xOVlFKr8pirkn0000157a@relay1.softcomca.com>
Content-Transfer-Encoding: Quoted-Printable
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"

I will be testing a 20m dipole up 15ft at 115z. Will be using a VEC1320 @1.5
watts. I'll be CQ @12wpm between 14.055 and =
14.065.

Thanks in advance to anyone who contacts me.
73,
Jason KC0IIN

---
mail2web - Check your email from the web at
http://mail2web.com/ .

Date: Sat, 17 Nov 2001 20:26:01 -0500
From: "jman0iin@home.com" <jman0iin@home.com>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [112022] Didn't do the test
Message-ID: <RELAY2HvBgUp5G9C1op0000121a@relay2.softcomca.com>
Content-Transfer-Encoding: Quoted-Printable
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"

Didn't do the test due to problem somewhere in the portable shack I was using.

I'll post later if I get it fixed.

73,

Jason KC0IIN

Date: Sat, 17 Nov 2001 20:50:48 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [112023] Antenna, the continuing story...
Message-ID: <006c01c16fd3$75a03220$0600a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Some of you may remember my original post, where I made the comment
about the guys nearby who are using and reporting excellent results with
old CB 9' whips in a mag mount base on their cars.

Well, I didn't have a 9' whip, but I DID find an old 48" fiberglass whip
that
was 'top loaded' for CB. I figured with the 'top load' the bottom 42" or
so would appear as a plain old whip, and the 'top load' might even help
somewhat as a coil. And since there are people that operate the K2 with
a 3' or so whip stuck right in the back... (Yes, I AM aware of the issues
what with sticking the antenna at the end of coax with the tuner at the
radio as opposed to sticking the antenna right ON the radio.)

What the heck, try it.

So I did.

First off, the K2 ATU brought the thing in just fine. Mostly. Here's
what
I got for SWR, using the STANDARD tuning (not the long) algorithm in
the ATU for various frequencies:

	3930 6.1
	7290 1.2
	14300 1.1
	18125 2.0
	21350 1.0
	24950 2.1
	28700 1.6

As you can see, all but 80M that I tried were brought in to acceptable tuning by the ATU.

How did it work? Well, on 20M for example, before tuning I didn't hear much other than background noise and my Jeeps ignition. (NB1 took care of the ignition beautifully, but I've discovered that the K2 does NOT remember the noise blanker through a power off cycle.) I heard a number of stations, but only got a partial contact before I moved up to 10M.

Now, I heard all kinds of stuff on the bands, on all bands, even 80M with the bad tune, but the SS contest, guys were in there with GOBs of power and going for numbers. So it was difficult to get anything as a contact.

But I did manage to work one guy, on 10M. A guy named Mark (forget his call, as I was mobile) was one of the operators at W6EEN getting ready for the contest. Anyway, I stayed dialed back to QRP on the K2 and managed to work him SSB on 28485 as I was driving to the grocery store to get my Thanksgiving turkey. By the way, when I retuned at this frequency, the ATU brought it in to 1.0 SWR.

Now, some would argue that a 10M contact is not a valid test for a CB antenna since the bands are so close, but I was still impressed. Time will tell if I'm going to get any contacts on 20M or 15M, or maybe even 40M!! Just have to see.

Hey, a bad antenna is still better than NO antenna. And I WILL pick up a 9 foot whip (they're only $15) and try it.

Mike
.

Date: Sat, 17 Nov 2001 20:57:56 EST
From: Jfelts202@aol.com
To: qrp-l@lehigh.edu
Subject: [112024] 5/8 wave Vertical
Message-ID: <9b.1e19dc38.29286fa4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

What is the formula for figuring the length of a 5/8 wave vertical. I want to play with one for 17m.

Jerry

Date: Sat, 17 Nov 2001 21:24:48 -0500
From: "w8diz" <w8diz@fpqrp.com>
To: <Jfelts202@aol.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112025] Re: 5/8 wave Vertical
Message-ID: <004401c16fd8$32aa86a0$39d81b41@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

2.5 times as long as a 1/4 wave :-)

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
Clermont County - EM79uf - near Cincinnati; 39.218N - 84.305W
SOC-8 DLQRPAG-1454 ARCI-10226 ARS-781 QRPL-1998 10X-9389 CATT-26
FP#-1 http://home.cinci.rr.com/w8diz & http://kitsandparts.com

----- Original Message -----
From: <Jfelts202@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, November 17, 2001 8:57 PM
Subject: 5/8 wave Vertical

What is the formula for figuring the length of a 5/8 wave vertical. I want to
play with one for 17m.

Jerry

Date: Sat, 17 Nov 2001 21:30:18 -0500
From: "jman0iin@home.com" <jman0iin@home.com>
To: "AL7FS@ARRL.NET" <AL7FS@ARRL.NET>,
        "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [112026] Re: Testing Antenna @new time 235z
Message-ID: <RELAY1x63RNpggkzpB80000175d@relay1.softcomca.com>
Content-Transfer-Encoding: Quoted-Printable
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"

Will be testing the antenna at 235utc. Same as before, will start at 14.055 and work my way up to the first clear frequen=
cy I hear. Antenna to be tested is a 20m 1/2 dipole up 15ft (would have it higher but I have covenants here.)Will be loo=
king for any states and countries especially Alaska if Jim AL7FS still tries to look for me.

73,
Jason KC0IIN
10-10 #72863 SOC #493 WWYC #128
ARRL DRC CRA RMRL

Date: Sat, 17 Nov 2001 20:45:53 -0600
From: "Michael Melland" <w9wis@charter.net>
To: <fpqrp-l@mpna.com>, <njqrp@njqrp.org>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [112027] O'scope & valve tester <grin> for sale......
Message-ID: <001e01c16fdb$24b44740$e877c418@computer>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Before I list it on eBay I thought someone may be interested here. I'm planning on selling the following:

Tektronix 2235 100 MHz 2 channel scope, with original manual, 2 ea Tektronix 6122 10X probes, and front protective cover. Excellent condition, recently calibrated by a metrology lab. 2mv/division, has delay........

This IS NOT one of those military surplus scopes that proliferate eBay. I am the second owner and I purchased it from a private hobbyist that had purchased it new in 1983. The scope was checked over and issued a certificate of certified calibration in June 2000 and the "certificate" just expired. The scope is in excellent condition. Only complaint is the beam finder switch is flakey.... a known issue in these scopes, but it doesn't affect the calibration or operation so I never fixed it. If you'd like a picture let me know..... asking $350 plus shipping

Also selling a TV-7D/U military tube tester. Typical to military gear there are some scratches on the aluminum case but the inside is excellent and it works great. It was refurbished at an Army Aviation Depot in 1983. Includes test adapters, tube data, service manual etc..... asking $225 plus shipping.

Regards,

Mike

--
Michael Melland, W9WIS
Winneconne, Wisconsin USA EN54pc
qrp-l #1656 - qrparci # 9875 - iparc #252
ars #1075 - http://www.qsl.net/w9wis

Date: Sat, 17 Nov 2001 21:53:02 -0500
From: "jman0iin@home.com" <jman0iin@home.com>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [112028] Testing Antenna @should've been 330z
Message-ID: <RELAY3g41UjdSkleUBU000019eb@relay3.softcomca.com>
Content-Transfer-Encoding: Quoted-Printable
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"

I wrote current time in the message instesd of the testing time. Should have been 330z. I got the problem fixed. It was a=
 loose connection to one of the external parts.

73,
Jason KC0IIN

Original Message:

From: jman0iin@home.com jman0iin@home.com
Date: Sat, 17 Nov 2001 21:30:18 -0500
To: qrp-l@Lehigh.EDU
Subject: Re: Testing Antenna @new time 235z

Will be testing the antenna at 235utc. Same as before, will start at 14.055 and work my way up to the first clear frequen=
=3D
cy I hear. Antenna to be tested is a 20m 1/2 dipole up 15ft (would have it higher

but I have covenants here.)Will be loo=
=3D
king for any states and countries especially Alaska if Jim AL7FS still tries to look for me.

73,
Jason KC0IIN
10-10 #72863 SOC #493 WWYC #128
ARRL DRC CRA RMRL

Date: Sat, 17 Nov 2001 19:50:57 -0700
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [112029] FUN TT2 QSO!
Message-ID: <01a001c16fdb$da303d40$6a211d82@cos.agilent.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Amazing First QSO!

I was recovering from a slight case of the flu and for therapy decided to build my Tuna Tin II. It's been laying in the drawer neglected for a last couple of years. It's kinda the rights of passage for QRPers to build a TT2 don't ya think?

Having learned from all the other kits I built I first got the osc going first then the amp. And it worked!! Alright!! ...I was surprised it landed on 7040.1 almost exactly on the watering hole? So, the first QSO was old WA6EIW - Vic in OK , guess what his rig was ...Yup a TT2 and wow what a big signal he had! No wonder, he had phased verticals ...a good 599! Doesn't

get any better than that!! TT2 to TT2

Next is to get this lil TT2 in a package(a tuna can of course!). I'll post some pix later. My wrist is still sore from using that darn straight key. Been awhile since I used the arm-strong pump! How do you make ur keyer key a + 12 Vdc? I need to add Tick to this dude soon! Steve/n0tu

---

Date: Sat, 17 Nov 2001 20:59:41 -0600
From: "George, W5YR" <w5yr@att.net>
To: w8diz@fpqrp.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112030] Re: 5/8 wave Vertical
Message-ID: <3BF7241D.5161EF0F@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Diz is not entirely kidding. Cut it to about that length for the frequency you want and then plan to prune the length to get your t-line SWR minimum at that frequency. That will be close enough for government work . . .

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

w8diz wrote:
>
> 2.5 times as long as a 1/4 wave :-)

Date: Sat, 17 Nov 2001 21:04:17 -0600
From: "George, W5YR" <w5yr@att.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112031] Re: 5/8 wave Vertical
Message-ID: <3BF72531.A66923A3@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I failed to mention in the quoted email below that the 5/8 wave vertical will need an inductance at the base in series with the feedline to tune out the capacitive reactance that length presents.

The size of that coil is another variable in tuning the antenna to a
particular frequency in addition to the length of the antenna itself.

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

"George, W5YR" wrote:
>
> Diz is not entirely kidding. Cut it to about that length for the frequency
> you want and then plan to prune the length to get your t-line SWR minimum
> at that frequency. That will be close enough for government work . . .

Date: Sun, 18 Nov 2001 03:11:41 GMT
From: kb1dxc@discovernet.net (kb1dxc)
To: qrp-l@Lehigh.EDU
Cc: casey.jay@gte.net
Subject: [112032] Re: [ELMER 101]
Message-ID: <v01530509b81c8a796f5e@[216.221.130.108]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hey Donn,

        First, let me say don't worry. You sound like you are nervous over
the kit. If Dave said he would send you the manual, you will get it. He is
very good about support. You will have no difficulty identifying the parts
when you see the parts list. It has the value and the markings for each
part. Yes, yo probably need a magnifier. I doubt anybody can read all
markings with the naked eye.

        I dug out the manual for the "20". The pictures for the one I am
doing with the class are for the 40. I will answer your questions as best
as I can though.

>(There are 3 items marked 43IF 123.
>What are these?

T1, T2 and T3

>There are 5 items marked S9.0ecsl. What are these?

Not possitive by your markings, but my guess would be that they are the

matched set of 9.00 Mhz Xtals, other than resistors, there is no other part that has 5 of the same thing

I see 3
>toroids partially painted yellow and 2 completely unpainted. Is there a
>reason for
>this? If so, what?

L1 , L3 and L4   Yellow
L2   Dark Grey
T4   Dark Grey

The reason for color is easier identification, something like the color code on resistors.

 The blue cylinders marked (47uf 25V, 3.3uf, 50v, and 220uf 16V)
>What are these?

These are the electrolitic capacitors, and they are polorized so there is a posative and negative, I am sure that it will be explained well during the coarse.

>What's the blue squared
>item with 3 leads marked YE/501C112)?

R24,   500 ohm trim pot

Haven't even opened the static shield bag
>yet.   Maybe these are all identified in the manual, I don't know.

        Yes, they are all covered in the manual, you will not have trouble. Do use a grounding strap when handling these items in the anti-static bag or at the very least, touch a good ground prior to touching those items.

> There are some capacitors which I can't
>tell if its 151 or 161.

They have to be 151, there should be 8 of them. There are no 161 caps with the kit, not sure if there is such a value for caps.

If for any reason Dave fails to send you the manual, I can make a copy and send it to you, but I am sure that Dave will pull through. He was extremely helpful when I built my first kits and I was also new to it then, not long ago either. These kits, and the elecraft kits are made and documented in such a way that virtually anybody that can solder a component to a board can build one and have it work right off the bat. I wish you good luck with your kit. If you get up a decent antenna you will be working DX with that "20."

Mike,
KB1DXC

Just remember: It IS as BAD as you think, and they ARE out to get you.

---

email address : kb1dxc@discovernet.net

MY WEB SITE IS: http://www1.discovernet.net/~kb1dxc/

MY RADIO WEB SITE IS AT: http://www.qsl.net/kb1dxc

The web site of the Stamford Amateur Radio Association:
http://www.qsl.net/w1ee

MIKE

Date: Sat, 17 Nov 2001 22:16:17 -0500
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: qrp-l@lehigh.edu
Subject: [112033] Warbler Woes
Message-ID: <5.0.2.1.2.20011117221221.021e6230@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I've been trying to get my NJQRP Warbler on the air (almost a year later...). Seem to be having real problems connecting it to my IBM Thinkpad T20. I connect the audio out from the Warbler to the Mic in on the Thinkpad and I get a TERRIBLE ground loop. I've hooked a real microphone up to the port on the TP and it's just fine. But incredible noise, no matter what I do on hooking up the Warbler.

Same problem exists trying to hook it up to my work T21. Obviously, this is a "feature" in the sound card on the TP (supposed to be "Soundblaster compatible"), but I'm out of ideas. Can't find anything about it, anywhere in Google.

Any thoughts?

72 de Mike, KO4WX
Michael C. Boatright

Date: Sat, 17 Nov 2001 21:31:05 -0600 (CST)
From: "Rich Dailey, KA8OKH" <okh.npi@gte.net>
To: qrp-l@lehigh.edu
Subject: [112034] (Not) The Weakest Links
Message-ID: <3.0.16.20011118033002.29aff53e@mail.gte.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Ok, here's my clipboard of the past week's neat links
from qrp-l. Click away... Rich

smallest transistor
http://www.cnn.com/2001/TECH/ptech/11/08/tiny.transistors.ap/index.html

w8diz tuner
http://home.cinci.rr.com/w8diz/vert-x2.htm

elmer 101 material
http://epic.mcmaster.ca/~elmer101
http://engphys.mcmaster.ca/~elmer101/
http://www.qsl.net/kb1dxc/elmer_101.html

homebrew capacitors for loop antennas
http://valveman.tripod.ca/CAP1.jpg
http://valveman.tripod.ca/CAP2.jpg

dummy loads
http://www.io.com/~n5fc/gizmo.htm
http://www.garciaaviation.com/munitions.html
http://www.northcountryradio.com/pdummyld.htm

soldering pl259s
http://www.arrl.org/tis/info/pdf/9512076.pdf
http://www.w5fc.org/Files/A%20better%20way%20to%20install%20PL259s.doc
http://members.spinn.net/~rfcdma/

Electronics tutorials
http://www.electronics-tutorials.com

N4XY Pages
http://www.qsl.net/n4xy/rcvr_racal1.html

Scientific calculator
http://www.geocities.com/CapeCanaveral/Launchpad/2426/calculator.html
http://www-sci.lib.uci.edu/HSG/RefCalculators.html

flashing LED circuits
http://www.electronic-circuits-diagrams.com/lightsimages/1.gif
http://ourworld.compuserve.com/homepages/Bill_Bowden/
http://www.qsl.net/yo5ofh/hobby%20circuits/led_circuits.htm
http://www.discovercircuits.com/L/LED.htm

WinSPICE
http://www.willingham2.freeserve.co.uk/winspice.html

neat circuits
http://www.uoguelph.ca/~antoon/circ/circuits.htm

Unicounter source code (Dec 2000 QST)
http://www.arrl.org/files/qst-binaries/stone.zip

US Euro Ham Radio Equivalent Parts and info
http://www.euramcom.freeserve.co.uk

Radio schematics (russia)
http://krasnodar.online.ru/hamradio/sch_eng.html

Ten Tec 516 QRP transceiver
http://www.tentec.com/TT516.htm

VE3DNL marker-generator
http://www.fix.net/~jparker/norcal/marker/marker.htm

2001 html archive of qrp-l
http://www.qsl.net/wb8rcr/Download/QRPL2001.zip

Rich Dailey, KA8OKH - Phyllis Dailey, KB4NPI
<http://home1.gte.net/web22jfw/>

Date: Sat, 17 Nov 2001 21:56:13 -0600 (CST)
From: "Rich Dailey, KA8OKH" <okh.npi@gte.net>
To: qrp-l@lehigh.edu
Subject: [112035] OT: Leonids tip
Message-ID: <3.0.16.20011118035412.476f1c34@mail.gte.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

For those of you who are staying up for the potential

show in the sky, a radio tip. If you have 6 meter capability,
tune to 55.250 Mhz ssb. Now this works best if you don't have
a tv channel 2 in your backyard, but near-zero beat on that frequency
and let it play. Every so often you'll hear little blips of carriers that
will
come and go. These are actually reflections of distant ch 2 video carriers
that are being reflected from meteor ionization trails. With any luck, we'll
hear activity pick up around 1000z.

Rich

Rich Dailey, KA8OKH - Phyllis Dailey, KB4NPI
<http://home1.gte.net/web22jfw/>

Date: Sat, 17 Nov 2001 20:15:26 -0800
From: "Gary O. Lyons" <drgary@urx.com>
To: <qrp-l@Lehigh.EDU>
Subject: [112036] K1-4 in progress
Message-ID: <000101c16fe7$a799fd60$46d56bce@G_Lyons>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="utf-8"
Content-Transfer-Encoding: 7bit

Greetings QRP-L folks,

I finally decided to give Elecraft call and order a K1-4. Now that football
season is nearly over I now have my evenings free. It's now time to "melt
solder." The filter board is almost done and the front panel is next. I'm
kinda excited - I haven't built a kit in years.

Every one have a good weekend.

Gary/NQ7T

Date: Sat, 17 Nov 2001 22:37:19 -0600
From: "Ed Manuel (N5EM)" <n5em@flash.net>
To: qrp-l@lehigh.edu
Subject: [112037] Fwd: Re: 5/8 wave Vertical - Tuning Them
Message-ID: <4.3.2.7.2.20011117223702.00be8a60@pop.flash.net>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>Date: Sat, 17 Nov 2001 22:36:46 -0600
>To: w5yr@att.net
>From: "Ed Manuel (N5EM)" <n5em@flash.net>
>Subject: Re: 5/8 wave Vertical - Tuning Them
>
>One method is to figure out what your 5/8 length should be - then figure
>out what frequency is the equivalent quarter wave. In other words, 5/8
>wavelength of Frequency A = 1/4 wavelength at Frequency B. Use your
>MFJ259B to get it close at that frequency (B), then add the inductor and
>tune the inductor for a match at the 5/8 wave frequency (A). Remember,
>you are adding inductance at the 5/8 frequency to make the antenna
>electrically 3/4 wavelength so it matchs at a low-z point.
>
>Clear as mud :-)
>
>Ed, N5EM
>
>
>At 09:04 PM 11/17/01 -0600, you wrote:
>>I failed to mention in the quoted email below that the 5/8 wave vertical
>>will need an inductance at the base in series with the feedline to tune out
>>the capacitive reactance that length presents.
>>
>>The size of that coil is another variable in tuning the antenna to a
>>particular frequency in addition to the length of the antenna itself.

Ed Manuel, N5EM   Houston, TX (Harris Co.) EL29
Houston QRP Club, Houston Amateur Television Society
http://www.n5em.com/   n5em@amsat.org

Date: Sat, 17 Nov 2001 23:42:14 -0500
From: Doc <70511.3041@compuserve.com>
To: "\"Low Power Amateur Radio" <qrp-l@Lehigh.EDU>
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [112038] Need *Slashed ZERO* Font
Message-ID: <200111172342_MC3-E767-90D2@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;

```
         charset=ISO-8859-1
Content-Disposition: inline

Gang:

Trying to print a QSL using John Mc's QSL Maker software.  Can someone
please send me a font which has the slashed zero in it?  I used to have
several, but have lost them to a virus.  Thanks in advance for any help
received.

73,
--Doc/K0EVZ

------------------------------

Date: Sat, 17 Nov 2001 23:42:16 -0500
From: Doc <70511.3041@compuserve.com>
To: "\"Low Power Amateur Radio" <qrp-l@Lehigh.EDU>
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [112039] For Sale--Two QRP Kits
Message-ID: <200111172342_MC3-E767-90D3@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
         charset=ISO-8859-1
Content-Disposition: inline

Gang:

I have for sale two QRP kits.  One is an SW-40 complete with the factory
case.  The other is an NC-20 (also has factory case).  Both are complete =
as
received from the respective factory originally.  Will sell the pair for
only $135.00 which includes insured shipping to your CONUS address.  =


73,
--Doc/K0EVZ

------------------------------

Date: Sun, 18 Nov 2001 00:21:37 -0500
From: Doc <70511.3041@compuserve.com>
To: "\"Low Power Amateur Radio" <qrp-l@Lehigh.EDU>
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [112040] Two QRP Kits--spoken for
Message-ID: <200111180021_MC3-E752-300F@compuserve.com>
MIME-Version: 1.0
```

Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
         charset=ISO-8859-1
Content-Disposition: inline

Gang:

Wow, that was fast. Several have already spoken for the two rig kits. =

They will go to the first responder. Thanks, everyone.

73,
--Doc/K0EVZ

Date: Sat, 17 Nov 2001 21:57:21 -0600
From: Mark Fields <mark_ke5my@juno.com>
To: qrp-l@lehigh.edu
Subject: [112041] Hello.....anybody there?
Message-ID: <20011117.225201.-147479.0.mark_ke5my@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

     Since 11/12, I haven't gotten ANY messages from the reflector
whatsoever. This has happened once before, and I just don't
understand why this keeps happening. I've just sent a message to the
list manager, and maybe that will help. Hope I'm still subscribed to
this
reflector.
                                                        73, Mark, KE5MY
                                                        Hopefully, still
QRP-L # 2365

Date: Sat, 17 Nov 2001 21:39:38 -0800
From: Thomas Upton <stjohn@ocsnet.net>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [112042] (OT) Re: Is it True? Is it Necessary? Is it Kind?
Message-ID: <3BF74999.4721FA82@ocsnet.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks Jim for your point of view.

I will add one to it. Slander is "when" we tell a lie about someone.
Detraction is "when" we tell the truth about someone, but shouldn't.

There are lots of true things no one else has the right to know.

Tom Upton AD6N

Date: Sun, 18 Nov 2001 01:41:35 -0500
From: "Brice D. Hornback" <bdh@cyberbound.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112043] Tiny-Tornado Kit Update
Message-ID: <002001c16ffc$12151da0$7001a8c0@lwrnc1.in.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello everyone... Well, UPS didn't deliver the parts today. Ooops. Sorry.
But, they WILL be here on Monday. So... since I didn't recieve the parts
today, I won't be able to ship the kits on Monday.

However... as a little something to make up for it... I've updated the site
to include NEW photos... NEVER BEFORE SEEN... of the latest version of the
Tiny-Tornado R2 (TT-40). This is the version that will be shipped to you.
I know you'll LOVE it! There will be a couple minor differences in a couple
parts (mainly because I had to use what I had to build and test this one).

Check out the photos of the latest Tiny-Tornado!
http://www.QRPp-I.com

SO.... what do you all think of it? It's 30mm x 43mm double-sided
plated-through hole with a ground plane and a mounting hole. :-)

I'd love to hear some feedback on it. Those of you who have expressed an
interest in my doing another batch of kits... well... okay. BUT.... I want
to get all these shipped and a few of them built before I start taking
orders. If you're not on my list yet... send me an email and let me know
you want one (or ten)... It's not an order... I'm just looking to see if
there is enough interest.

Anyway... I'll be updating the site and adding additional photos throughout
the weekend.

72/73 DE KA8MAV (Brice)
Indianapolis, IN   EM79au
QRPp-I #1, QRP ARCI #10972, QRP-L #2360, ARRL
KLQRP, FPQRP -156, ARS #1,138, NETXQRP #27
Instant Messenger ID: ka8mav

Date: Sat, 17 Nov 2001 23:22:19 -0800
From: "blinn" <blinn@smgazette.com>
To: <qrp-l@Lehigh.EDU>
Subject: [112044] Re: Need *Slashed ZERO* Font
Message-ID: <000401c17001$c34a7700$ae69f040@blinn>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

Use the NUMERIC keypad.
At the the location you desire a
Press and HOLD ALT Key and hit 0(zero), 2, 1 and 6 (ALT   2 1 6) on Numeric
keypad, then
release the ALT key.

--

Date: Sat, 17 Nov 2001 22:57:52 -0900
From: Jim Larsen AL7FS <AL7FS@ARRL.NET>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>,
        GQRP Mail List <GQRP@yahoogroups.com>
Subject: [112045] Fwd: QRP in SS from KL7Y
Message-ID: <3BF76A00.6735820D@ARRL.NET>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings from Alaska,

I thought this might be interesting to some of you. This is from KL7Y

telling me that WA2GO is using his big station north of Anchorage in SS phone at 5 watts. If you worked KL7Y this weekend in SS you have a QRP QSO. Fun.

Dan, KL7Y, has been a great supporter of us on QRP even though he prefers higher power for most of his own work.

73, Jim, AL7FS

-------- Original Message --------
Subject: QRP in SS
Date: Sun, 18 Nov 2001 05:34:58 +0000
From: Dan Robbins KL7Y
To: Jim Larsen AL7FS <AL7FS@ARRL.NET>

WA2GO is up here operating the SS phone contest - running 5W in QRP class using my call. The 4 stack on 10 really helped him out, he's already worked 422 on that band. 15 did OK, too. QRP on 40 is quite a bit tougher - he has only 2 QSOs on that band. Anyway, he's already over 600 Qs total, which is pretty good. If he can keep pounding on 10 and 15 tomorrow he might just do real well. Of course he was doing real well in the CW part as a low-power entry until the aurora hit on Sunday. Oh well. Last year's QRP winner had 879 QSOs and 80 sections, but I doubt if WA2GO will get all 80, it's pretty tough from up here without a KW. Thought you might be interested in the QRP effort.

Dan KL7Y

Date: Sun, 18 Nov 2001 00:35:17 -0800
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: <mark_ke5my@juno.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [112046] Re: Hello.....anybody there?
Message-ID: <012a01c1700c$09d5a780$39e3b3d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Mark,

Just one comment, I notice that you and all of the others that seem to have this problem are at free e-mail services such as Juno (like you Mark). Might be time to start paying for a reliable e-mail service, as I've been getting at least 60 e-mails a day! Check out earthlink.net, as they've never let me down in the 5 years I've been using them...just a

satisfied customer...

72/73's
Trev
KG6CYN
----- Original Message -----
From: Mark Fields <mark_ke5my@juno.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Saturday, November 17, 2001 7:57 PM
Subject: Hello.....anybody there?

> Since 11/12, I haven't gotten ANY messages from the reflector
> whatsoever. This has happened once before, and I just don't
> understand why this keeps happening. I've just sent a message to the
> list manager, and maybe that will help. Hope I'm still subscribed to
> this
> reflector.
> 73, Mark, KE5MY
> Hopefully,
still
> QRP-L # 2365
> _____
> GET INTERNET ACCESS FROM JUNO!
> Juno offers FREE or PREMIUM Internet access for less!
> Join Juno today! For your FREE software, visit:
> http://dl.www.juno.com/get/web/.

Date: Sun, 18 Nov 2001 17:05:09 +0700
From: "bam yb0ko/1 SOETRISNO" <unclebam@indosat.net.id>
To: <kc4atu@yahoo.com>, "qrp-l" <qrp-l@lehigh.edu>
Subject: [112047] Re: No More Scouts?Ten-Tec making mistake
Message-ID: <006401c1701a$8681d200$e0429bca@kutuimut>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

hi folks,
anybody can lead me to the Ten-Tec web-site?
have tried http://lists.contesting.com/mailman/listinfo/tentec but
apparently this site was NOT the 'official' Ten-Tec moderated
site

while i have a Scout 555 in my shelf (purchased back in 1974),

i want to know more abt those 615, jupiter etc .....

TIA es 72/73 de bam yb0ko/1
OI 33 oi, bogor 16136
6 38 04 S, 106 48 16 E
ts120v @ 8W, n4pc skywire @ 11 mtr

----- Original Message -----
From: Bill ROWLETT <kc4atu@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Saturday, November 17, 2001 5:25 AM
Subject: Re: No More Scouts? Ten-Tec making mistake

Date: Sun, 18 Nov 2001 10:48:18 GMT
From: kb1dxc@discovernet.net (kb1dxc)
To: qrp-l@Lehigh.EDU
Cc: "Jimmy" <ke4bf@hiwaay.net>
Subject: [112048] Re: [Elmer 101] class
Message-ID: <v01530502b81cf86cea76@[216.221.130.46]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello Jim,

After reading your email, I have come to a conclusion that somewheres along the line there is a misunderstanding. It sounds as though you think that I am running the Elmer 101 class. I am not running the class at all. I have only made a couple of posts regarding the class. There is no way in hell that I could run something like this. I am going to be following the class because I might be able to learn something. I have built several kits and they all worked, but I really don't have any idea of how they work. I follow directions and end up with a radio. I can put one of these Small Wonder kits together in one long day, but learn nothing about what makes them work. So, I am a particapant. If I can help somebody I will, but I sure am not the moderator of this class by any means.

As far as helping someone, yes I will do that. God knows, I have had plenty of help from others. This is the way Amateur radio works. Without helping each other we would end up with only geniouses as operators and the rest of us would all have shortwave radios, listen and wonder what the hell is going on. Who knows, maybe someday I will understand all this electronic stuff, be able to pass the EXRTA exam and give a class like this to interested parties. OH, what a dreamer I am !!!

I am not sure which post I made that gave you the impression that I was running the class, but I sure hope that not too many others also made the same assumption as you did. I don't mind answering questions, but I know that once the class begins, the questions will all be well beyond my capabilities of answering as I might be asking the most questions myself.

>Mike,
>I have been reading the posts on qrp-l about the elmer 101 class you are
>doing. I have worked in the electronics field all my working career and
>recently retired from Verizon. I have been a ham since 1976. Just wanted you
>to know that I am impressed that you would take the time to help the novice
>builders. I'm so excited about this program that I ordered a kit from Dave
>and am going to build along with the group. Haven't had this much fun in
>years. Have done about everything you can do in ham radio but aways seem to
>come back to qrp and building. QRPers are some of the best people you will
>meet. Didn't mean to get long winded but just wanted you to know that there
>are people out here that appreciate what you are trying to do. 73 and hope
>to work you sometime.
>
>Jim KE4BF

Just remember: It IS as BAD as you think, and they ARE out to get you.
---
email address : kb1dxc@discovernet.net

MY WEB SITE IS: http://www1.discovernet.net/~kb1dxc/

MY RADIO WEB SITE IS AT: http://www.qsl.net/kb1dxc

The web site of the Stamford Amateur Radio Association:
http://www.qsl.net/w1ee

MIKE

Date: Sun, 18 Nov 2001 03:06:01 -0800
From: "Dave Fifield" <dave@redhotradio.com>
To: <okh.npi@gte.net>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112049] Re: Leonids tip
Message-ID: <001901c17021$1bd59b60$0200a8c0@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain;

        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Or....tune to 50.270MHz with the audio from your rig
fed to a soundcard in your PC with WSJT software
running on it and copy the meteor scatter QSO's that
are going on right now. Better yet, hook up the transmit
path too and join in, it's remarkably simple to do.
I set my system up in about an hour tonight and completed
a MS QSO just a few minutes later. You can run QRP if
you like, the pings are good tonight...

72, Dave, AD6A

----- Original Message -----
From: "Rich Dailey, KA8OKH" <okh.npi@gte.net>
Subject: OT: Leonids tip

For those of you who are staying up for the potential
show in the sky, a radio tip. If you have 6 meter capability,
tune to 55.250 Mhz ssb. Now this works best if you don't have
a tv channel 2 in your backyard, but near-zero beat on that frequency
and let it play. Every so often you'll hear little blips of carriers that
will
come and go(snip)

Date: Sun, 18 Nov 2001 04:37:09 -0700
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [112050] Meteors Galorious!
Message-ID: <01dc01c17025$5c7ecfc0$6a211d82@cos.agilent.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Got early to do some prospeting w/my newly built TT2 and steppped out side
with a hot cup of java ..."WOW " - Counted a 100 shooting-stars in 10 minute
period! Mostly in northwestern direction. Anyone else seeing them???
Steve/n0tu

Date: Sun, 18 Nov 2001 05:55:03 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Steve/n0tu <n0tu@webaccess.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112051] Re: Meteors Galorious!
Message-ID: <Pine.LNX.4.33.0111180553560.1255-100000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Steve I stepped out at 3 am local MST and counted just 1/min here. Will
go out and look again right now.

On Sun, 18 Nov 2001, Steve/n0tu wrote:

> Got early to do some prospeting w/my newly built TT2 and steppped out side
> with a hot cup of java ..."WOW " - Counted a 100 shooting-stars in 10 minute
> period! Mostly in northwestern direction. Anyone else seeing them???
> Steve/n0tu
>
>

--
Yours Truly,

      - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
                        http://www.qsl.net/k5di/

Date: Sun, 18 Nov 2001 14:04:28 +0100
From: DK3RED@t-online.de (Ingo, DK3RED)
To: unclebam@indosat.net.id, QRP-L <qrp-l@lehigh.edu>
Subject: [112052] Re: Ten-Tec making mistake
Message-ID: <3BF7B1DC.9CFD94F4@t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Bam,

> anybody can lead me to the Ten-Tec web-site?

http://www.tentec.com/

--
72/73 de Ingo, DK3RED   (Don't forget: the fun is the power !)

dk3red@t-online.de - www.qsl.net/dk3red - www.t-online.de/~dk3red

---

Date: Sun, 18 Nov 2001 08:08:29 -0500
From: "carl seyersdahl" <carlseye@tampabay.rr.com>
To: <n5em@flash.net>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112053] Re: 5/8 wave Vertical - Tuning Them
Message-ID: <017201c17032$1e55cde0$2e211c18@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

5/8 wavelength?? find half wave from formula, multiply by 2, divide that by
8 and multiply that by 5!!   that's all!!!
   carl / kz5ca
----- Original Message -----
From: "Ed Manuel (N5EM)" <n5em@flash.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, November 17, 2001 11:37 PM
Subject: Fwd: Re: 5/8 wave Vertical - Tuning Them

>
> >Date: Sat, 17 Nov 2001 22:36:46 -0600
> >To: w5yr@att.net
> >From: "Ed Manuel (N5EM)" <n5em@flash.net>
> >Subject: Re: 5/8 wave Vertical - Tuning Them
> >
> >One method is to figure out what your 5/8 length should be - then figure
> >out what frequency is the equivalent quarter wave. In other words, 5/8
> >wavelength of Frequency A = 1/4 wavelength at Frequency B. Use your
> >MFJ259B to get it close at that frequency (B), then add the inductor and
> >tune the inductor for a match at the 5/8 wave frequency (A). Remember,
> >you are adding inductance at the 5/8 frequency to make the antenna
> >electrically 3/4 wavelength so it matchs at a low-z point.
> >
> >Clear as mud :-)
> >
> >Ed, N5EM
> >
> >
> >At 09:04 PM 11/17/01 -0600, you wrote:
> >>I failed to mention in the quoted email below that the 5/8 wave vertical
> >>will need an inductance at the base in series with the feedline to tune
out

> >>the capacitive reactance that length presents.
> >>
> >>The size of that coil is another variable in tuning the antenna to a
> >>particular frequency in addition to the length of the antenna itself.
>
> Ed Manuel, N5EM Houston, TX (Harris Co.) EL29
> Houston QRP Club, Houston Amateur Television Society
> http://www.n5em.com/ n5em@amsat.org
>
>
>
>

Date: Sun, 18 Nov 2001 06:17:35 -0700
From: "Roger J. Wendell" <zeekzilch@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [112054] Re: Meteors Galorious!
Message-ID: <3BF7B4EE.FE584220@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

My wife and I drove 15 miles east of the Denver Metro area, at 03:00 AM on Sunday morning, and saw over 500 meteor "burns." There were also at least 500 cars from Denverites watching the same display. One burn was so bright it even cast shadows!

I arrived home, at 5 AM, to work a number of California stations on 144.200 USB

WB0JNR
Roger J. Wendell
http://www.RogerWendell.com

Date: Sun, 18 Nov 2001 08:32:31 -0500
From: John Harper AE5X <ae5x@qsl.net>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [112055] Leonid over my house
Message-ID: <000901c17035$c3138ae0$835dbc18@johnharp>
MIME-version: 1.0

Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I got up early this morning to look for Ducie Island on 40m (no joy) and to take a look at the meteor shower. From 4:30-5:30am, I saw about 4 meteors per minute. I set up my digital camera on a tripod and held the shutter open on "Bulb" for anywhere from 5 to 20 seconds and caught several meteors on "film". The camera was set to ASA 400-equivelent. Here is the best shot:

 http://www.qsl.net/ae5x/coolpix/coolpix.html

Unfortunately, I had left my pickup parked in front of the house after bringing home a piece of furniture yesterday.

John Harper AE5X
Outdoor QRP & Lowband DXing: http://www.qsl.net/ae5x

Date: Sun, 18 Nov 2001 08:35:28 EST
From: IamSF5@aol.com
To: n0tu@webaccess.net, qrp-l@lehigh.edu
Cc: antennas@qth.net
Subject: [112056] Re: Meteors Galorious!
Message-ID: <66.1781414b.29291320@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 11/18/01 6:45:17 AM Eastern Standard Time,
n0tu@webaccess.net writes:

<<
 Got early to do some prospeting w/my newly built TT2 and steppped out side
 with a hot cup of java ..."WOW " - Counted a 100 shooting-stars in 10 minute
 period! Mostly in northwestern direction. Anyone else seeing them???
 Steve/n0tu
  >>
Here in NJ at 4 AM nothing much was going on.
Close to 5 AM there were just to many to count and they were going in all directions.
Even the dim ones were leaving vapor trails.
We saw one big one that was leaving a trail with sparks flying off of it then it broke up in 6 smaller ones.
A real fantastic display.

At 5:30 we came in and I took the screens out of the window that is 8 feet wide and 5 feet high an we kicked back with pillows and a sleeping bag. Saw three more big bright ones then things started to slow down very fast. I feel like a real zombie now so me and the little Lady are going out for breakfest and i'm ordering a POT of coffie before I order food.
Bob
WA2HOQrp <tm>

Date: Sun, 18 Nov 2001 08:41:44 -0500
From: Dave Pomeroy <dave@dpomeroy.com>
To: qrp-l@Lehigh.EDU
Subject: [112057] FS
Message-ID: <5.1.0.14.0.20011118084039.00a60690@mail.dpomeroy.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I have an unbuilt PSK80 with recommended enclosure. $50 plus shipping. I also have an SMK-1 with NJQRP enclosure $50 plus shipping.

Dave Pomeroy K8DNP South Western Michigan

Date: Sun, 18 Nov 2001 08:52:21 -0500
From: "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
To: <n0tu@webaccess.net>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [112058] RE: FUN TT2 QSO!
Message-ID: <GCECIJFJPOHMCKACOAOBMECPDBAA.jakecart@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Steve -- N0TU:

You're going to love working that Tuna Tin -- I use mine almost everyday -- its my number 1 transmitter.

If you want to use a TiCK, check out the mod I made to my Tuna Tin -- its at http://pweb.netcom.com/~jakecart/TT2.html

Hope to hear you on the air.

73,

Jake -- N4UY

-----Original Message-----
From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of Steve/n0tu
Sent: Saturday, November 17, 2001 9:51 PM
To: Low Power Amateur Radio Discussion
Subject: FUN TT2 QSO!

Amazing First QSO!

I was recovering from a slight case of the flu and for therapy decided to build my Tuna Tin II. It's been laying in the drawer neglected for a last couple of years. It's kinda the rights of passage for QRPers to build a TT2 don't ya think?

Having learned from all the other kits I built I first got the osc going first then the amp. And it worked!! Alright!! ...I was surprised it landed on 7040.1 almost exactly on the watering hole? So, the first QSO was old WA6EIW - Vic in OK , guess what his rig was ...Yup a TT2 and wow what a big signal he had! No wonder, he had phased verticals ...a good 599! Doesn't get any better than that!! TT2 to TT2

Next is to get this lil TT2 in a package(a tuna can of course!). I'll post some pix later. My wrist is still sore from using that darn straight key. Been awhile since I used the arm-strong pump! How do you make ur keyer key a + 12 Vdc? I need to add Tick to this dude soon! Steve/n0tu

---

Date: Sun, 18 Nov 2001 08:57:21 -0500
From: "Brian Murrey" <brian@iquest.net>
To: <n0tu@webaccess.net>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112059] Re: Meteors Galorious!
Message-ID: <006e01c17038$f24a0020$822f2bd1@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

All we had here this morning was FOG FOG FOG.

So thick you couldn't see anything.

----- Original Message -----
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, November 18, 2001 6:37 AM
Subject: Meteors Galorious!

> Got early to do some prospeting w/my newly built TT2 and steppped out side
> with a hot cup of java ..."WOW " - Counted a 100 shooting-stars in 10
minute
> period! Mostly in northwestern direction. Anyone else seeing them???
> Steve/n0tu
>
>

Date: Sun, 18 Nov 2001 09:00:32 -0500
From: "Ron Polityka" <wb3aal@fast.net>
To: ".G-QRP Club" <GQRP@egroups.com>, ". QRP-L" <qrp-l@Lehigh.EDU>
Subject: [112060] Large Altoids Tin
Message-ID: <002401c17039$668abe20$dbaa5cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

 For all those that are looking for the large Altoids tins and live in the
US.
Check out your local Target Stores. They have the large tins for $6.99 until
next Saturday.

72 & 73
Ron Polityka
WB3AAL
www.n3epa.org

Date: Sun, 18 Nov 2001 09:05:09 -0500
From: "Brian Murrey" <brian@iquest.net>
To: "QRP-L" <qrp-l@lehigh.edu>, "pigs" <fpqrp-l@mpna.com>
Subject: [112061] Super Tick Question

Message-ID: <000901c1703a$09388e40$822f2bd1@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have an Embedded Research Super Tick (SMD Version) I bought at FDIM this
year. I want to put it in my HW-9.

Does anyone have any information about putting this Tick in that particular
rig?

Thanks

==
 KB9BVN NORCAL 2792 FISTS 5695 QRP-L 1540 QRP-ARCI 10223
       39.558 N   86.095 W   Johnson Co., Indiana
   GRID: EM69WN - Ten Tec Scout - Attic Dipole - 5w
  Member of the American Radio Relay League - SOC #400
  FISTS Century Club #764/#24 QRP - Flying PIG QRP #-57
==

Date: Sun, 18 Nov 2001 08:18:47 -0600
From: "David & Jo Ann Lininger" <djlinin@positech.net>
To: Martin Loopers <MartinLoopers@CAT41.org>,
        Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112062] Meteor shower
Message-ID: <3BF76EE7.32657.823E63@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

We looked out this morning, but all we saw was clouds. We'll try
again tonight.

73

David, KBOZKE
kb0zke@arrl.net
EM37kt home, EM37jv school

Date: Sun, 18 Nov 2001 08:50:31 -0600
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'n0tu@webaccess.net'" <n0tu@webaccess.net>,
        Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112063] RE: FUN TT2 QSO!
Message-ID: <01C1700E.14BBF580.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Great QRP related post.

Yep, it's always a thrill to make a QSO with the TT2. And the first one is the best.

And yes, pounding that J-38 for 20 minutes is fun.   Fun like hitting yourself in the head repeatedly with a hammer.

Here's the mod to allow you to use your keyer instead of a straight key:

Your 12V supply goes to the emitter of a PNP transistor (3N3906 or similar).
The collector goes where the 12V supply formerly went.
>From the base, a 3.3K resistor goes to one side of the key (or keyer input). The other side of the key goes to ground.
Connect a 0.1 uF disk or mono from collector to base.
Connect a 560 ohm resistor from base to emitter.
Done

Now you don't have to keep both sides of the key above ground, and so can use your standard electronic keyer to key the TT2.

The described circuit is from Dave Fifield's integration of the TT2 with the MRX-40. There's also a version in the Fort Smith group's TT2 pamphlet--which I've mislaid at the moment.

72 & happy milliwatting,

Nick, WA5BDU

****

Amazing First QSO!

Next is to get this lil TT2 in a package(a tuna can of course!). I'll post some pix later. My wrist is still sore from using that darn straight key. Been awhile since I used the arm-strong pump! How do you make ur keyer key
a
+ 12 Vdc? I need to add Tick to this dude soon! Steve/n0tu

-----Original Message-----
From: Steve/n0tu [SMTP:n0tu@webaccess.net]

Date: Sun, 18 Nov 2001 08:04:50 -0700
From: "Karl Rifenbark" <n7dma@mindspring.com>
To: <qrp-l@lehigh.edu>
Subject: [112064] Re: Leonids
Message-ID: <HFEHJIPLCMLIEGPKDPOGAEEGCAAA.n7dma@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

After a long eveninig at a great concert, I was unable to drag my sorry self out of bed to watch the shower this morning. Will Leonids give an encore presentation tonight?

Thanks,
Karl
N7DMA

Date: Sun, 18 Nov 2001 08:03:38 -0700
From: "Steve Thompson" <steve@xcvr.com>
To: <qrp-l@lehigh.edu>
Subject: [112065] [Elmer 101] Anti-Static Mat
Message-ID: <200111180803.AA214433842@xcvr.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

For those of you who prefer to work on an anti-static mat, one can be had from Jameco for a pretty good deal. I just ordered a 28"x24" mat for $14.95 (price went up from last year, though). A comparable mat at RadioShack.com, last I looked, was a lot more expensive.

http://www.jameco.com

Do a search on the part number which is 168508. If you want a smaller mat, then once you find 168508, click on the "Catalog Page" link ... it will show you some more mats that are smaller and slightly less expensive.

72,
Steve N7TX
Irving, TX

Date: Sun, 18 Nov 2001 08:49:28 -0700
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [112066] Corrected and FINI FOX log#5 rev6
Message-ID: <008701c17048$9ba7b4a0$6a211d82@cos.agilent.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

OK this it's ...finished ...final ...fini ...all done!

Thanks for your corrections and patience. ;-D

Deleted >0318 N3WU 559 CO LARRY 5W<
since this is not a valid callsign? I swore I worked the guy??
Maybe someone was fooling around? Whatever?
CU on Jan 17th for FOX#25

Cheers, Steve/n0tu

FIANL Rev2 FOX HUNT NUMBER 5 Nov.9, 2001

UTC   CALL   RPT(rc'd) State Name PWR

0201 KK5LD 559 TX Dan 5W
0202 AA7XA 559 OR Frank 5W
0203 W0CH 559 MO Dave 5W
0204 NQ7X 559 AZ Floyd 5W

0205 K7FD 559 OR John 5W
0205 K0FRP 579 CO Al 5W
0206 W7ILW 559 AZ Walt 5W
0207 K7TQ 559 ID Randy 5W
0208 N4ROA 559 VA Dan 5W
0209 N1FN 559 CO Et 5W
0209 VE6EX 559 AB Dan 5W
0210 WE9K 559 WI Glenn 5W
0211 NK6A 559 CA Don 5W
0212 KI0II 599 CO Ron 1W
0212 W9UQB/7 559 AZ Mike 5w
0213 VE6JAZ 559 AB Bob 5W
0214 W9HL 559 IL Randy 5W
0215 W5YR 559 TX George 5W
0216 K5LN 559 TX Bill 5W
0217 K6VNX 559 CA Arlen 5W
0218 K7WW 559 OR Art 5W
0218 K0EVZ 589 ND Doc 2w
0219 N0TK 579 CO Dan 5w
0220 N0AR 579 MN Scott 5w
0221 N6WG 559 CA Bob 5W
0222 N5UW 579 OK Clif 5W
0223 AA5O 559 LA Vern 5W
0223 K8CV 559 MI Walt 5W
0224 K5DI 599 NM Karl 5W
0225 N1TP 559 FL Tom 3W
0226 AC6UV 559 CA Goudy 5W
0227 W6KI 559 CA Glen 5W
0228 N3BJ 559 VA Alan 5W
0229 N7TX 579 TX Steve 5W
0230 KB9YIG 569 IN Tony 5W
0231 K5ZTY 559 TX Bill 5W
0232 K5OI 559 OK Tim 5w
0233 K3PH 579 PA Bob 5w
0234 W5OHL 599 OK Jim 5w
0235 W8VJW 559 MI John 5w
0237 N3ZPQ 559 MD Frank 5w
0239 K4ADI 559 SC Frank 5w
0240 W5USJ 559 TX Chuck 5w
0241 W0UFO 559 MN Mert 5w
0241 K4TJD 559 GA Tom 5w
0242 VE5RC 559 SK Bruce 5w
0243 AB0CD 559 Dick CO 5w
0245 W5TB 559 TX Doc 5W
0246 N9IJ 589 IL Len 5w
0247 N5IB 559 LA Jim 5W
0248 KE6RS 559 CA Ron 5W
0249 K3IU 559 RI Ken 5w

0250 KR5C 579 TX George 5W
0251 WA9TZE 559 WI Jim 5W
0252 K5DW 559 TX Don 5W
0253 KC1FB 559 CT Jim 5W
0253 K5JHP 559 TX BILL 5W
0254 N0DSP 559 CO TOM 5W
0255 K9IS 559 WI STEVE 5W
0256 N0UR 579 MN JIM 5W
0257 AA4LR 579 GA BILL 5W
0258 KV4EE 559 SC CRAIG 5W
0259 K9WIS 559 WI BRIAN 1W
0300 KJ0C 589 MO JIM 5W
0301 N9AW 559 WI JERRY 5W
0302 AF4PS 559 FL MAC 3W
0303 N4MAP 559 GA SAM 4W
0304 NQ7K 559 AZ MIKE 5W
0305 KD5KXF 559 TX MIKE 5W
0306 K8KFJ 559 WV GARIE5W
0307 K4FB 569 FL PAUL 5W
0307 W9XU 559 WI LON 5W
0308 N0RC 599 CO ROD 5W
0308 AF4PP 559 GA CHUCK 5W
0309 NK9G 559 WI RICK 5W
0310 W0PWE 559 IA JERRY 5W
0311 VA6RF 559 AB EARL 5W
0312 WV9N 559 OH RANDY 5W
0313 AD6JV 559 CA BILL 5W
0314 VE3FAL 579 ON FRED 5W
0315 KB9LGJ 559 CA TIM 5W
0316 KC0ATC 559 CO CHRIS 3W
0317 NU4N 559 KY DAVE 5W
0319 WA7LNW 559 UT JACK 5W
0320 NM5M 559 TX ERIC 5W
0321 WA8BXN 559 OH MIKE 5W
0322 K3KD 559 TX DAVE 5W
0323 VA3JFF 559 QC JEFF 2W
0324 VE4WI 559 MB CRAIG 5W
0325 AA7EQ 559 AZ BOB 5W
0326 KV2X 559 NY TOM 5W
0327 K5EOA 559 LA WAYNE 4W
0329 KG4LDY 559 VA JIM 5W
0330 NX8C 559 MI NEIL 5W
0332 W2XN 559 FL FRED 5W
0334 AB5XQ 559 AR BILL 5W
0335 K4BYF 559 FL JACK 5W
0337 K7EL 559 OR DAVE 5W
0338 WD5CMA 559 LA GLORIA 5W
0339 AJ4AY 559 AL JAY 5W

0340 W5YW 559 LA MIKE 5W
0342 N0HRL 559 MN KEN 5W
0343 KG6CYN 559 CA TREV 5W
0344 W8RU 599 MI RON 5W
0345 N5WL 559 OK BART 5W
0347 NQ7T 559 WA GARY 5W
0349 WB8WTU 559 OH DENNIS 5W
0350 KB1DXC 559 CT MIKE 5W
0351 K3NG 559 PA GOODY 5W
0352 N5EN 559 TX STEVE 5W
0354 N2LO 559 NJ BOB 5W
0355 K5BGB 579 TX ROD 5W
0356 N9WW 599 IL JIM 5W
0358 KQ5U 599 TX TERRY 5W
0359 N0TU 599 CO STEVE 5W

Date: Sun, 18 Nov 2001 07:56:32 -0800
From: Michael Fletcher <kl7ixi@home.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [112067] Re: Meteor shower
Message-ID: <B81D1A30.835%kl7ixi@home.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

A beautiful view in the frosty Seattle area last night around 0200-0300.
72,
Mike KL7IXI/7

Date: Sun, 18 Nov 2001 08:04:01 -0800
From: "Rich Wilkerson" <richqrp@home.com>
To: <qrp-l@Lehigh.EDU>
Subject: [112068] Re: Meteor shower
Message-ID: <000901c1704a$a37bb990$f5460418@CX55215A>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The same here in So. Cal. 0200 - 0300, outside temp was nice, just a very
nice show.

73, Rich WD6FDD
----- Original Message -----
From: "Michael Fletcher" <kl7ixi@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, November 18, 2001 7:56 AM
Subject: Re: Meteor shower

> A beautiful view in the frosty Seattle area last night around 0200-0300.
> 72,
> Mike KL7IXI/7
>

Date: Sun, 18 Nov 2001 08:09:17 -0800
From: Michael Fletcher <kl7ixi@home.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [112069] Re: [Elmer 101] class
Message-ID: <B81D1D2D.839%kl7ixi@home.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

So who is going to be the moderator this round?
72,
Mike KL7IXI/7

Date: Sun, 18 Nov 2001 11:40:48 -0500
From: mikemo@attglobal.net
To: kl7ixi@home.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112070] Re: [Elmer 101] class
Message-ID: <3BF7E490.F0647399@attglobal.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike (All),
I have taken the wheel again for this class. Let me clarify a few
points.

1) There is no "moderator" for the Elmer 101 class. I ask everyone to
use their best judgment. I would like to suggest, however, if a thread

gets way off topic (like the 60 Hz history stuff) that the [Elmer 101] header be removed. No hard and fast rules, just use your best judgment.

2) Technically, I'm just a facilitator of this class. We rely on the cumulative knowledge of all the outstanding technical people on the list. That is why the class is run on the list. If you have questions, ask the list, not me directly. You will more likely get a faster (and probably better) response.

3) If you don't like the way any part of the class is going, raise your hand and volunteer to handle the part you are not happy with. If you don't want to contribute, then don't complain. I'm always open to suggestions, I just don't like harsh criticism (gentle criticism is fine). This isn't anyone's job, it's just a hobby.

4) Ask questions, contribute, and be creative. There are no stupid questions here.

5) Before you respond to a question, please look to see if it has already been answered. This could save some email bandwidth. If you don't think an answer is correct then by all means jump in (just BE NICE).

6) Have a good time and let's all learn something.

Regards
Mike Maiorana, KU4QO

Michael Fletcher wrote:
>
> So who is going to be the moderator this round?
> 72,
> Mike KL7IXI/7

Date: Sun, 18 Nov 2001 11:47:05 -0500
From: mikemo@attglobal.net
To: qrpl <qrp-l@lehigh.edu>
Subject: [112071] [Elmer 101] kits on the way
Message-ID: <3BF7E609.9397353B@attglobal.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

It looks like we should be able to start soon. Small Wonder Labs is catching up on the backlog of orders. Most of the pending orders should ship Monday and should be received on Wednesday. If all goes well I'll

start with the first lesson on Sunday 11/25. If you don't have your kit by then don't panic. It should be on its way shortly. We will start slow so you should have an easy time catching up.

Don't forget, inventory your kit when you get it. Mike, KB1DXC, wrote an excellent post regarding component identification. Thanks Mike! If you can't identify a part, ask the list. If a part is missing, let Small Wonder Labs know (the instructions for replacement parts is in the manual). Dave is the best and will get your parts out ASAP.

Regards,
Mike Maiorana, KU4QO

Date: Sun, 18 Nov 2001 09:53:03 -0700
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>, <RandScott@aol.com>
Subject: [112072] Re: Corrected and FINI FOX log#5 rev7
Message-ID: <00c201c17051$7dadf960$6a211d82@cos.agilent.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Just a thought,
>
> >Deleted >0318 N3WU 559 CO LARRY 5W<
> Could it have been N2WW that is Larry in CO?
> 73,
> Randy, W9HL
> The Kentucky Coon Dawgs

Un-deleted >0318 N3WU 559 CO LARRY 5W<
It was N2WW it was Larry of course! I knew I worked some one w/loud sig!
TKS!

CU on Jan 17th for FOX#25

Cheers, Steve/n0tu

FIANL Rev7 FOX HUNT NUMBER 5 Nov.9, 2001

UTC   CALL   RPT(rc'd) State Name PWR

0201 KK5LD 559 TX Dan 5W
0202 AA7XA 559 OR Frank 5W
0203 W0CH 559 MO Dave 5W

0204 NQ7X 559 AZ Floyd 5W
0205 K7FD 559 OR John 5W
0205 K0FRP 579 CO Al 5W
0206 W7ILW 559 AZ Walt 5W
0207 K7TQ 559 ID Randy 5W
0208 N4ROA 559 VA Dan 5W
0209 N1FN 559 CO Et 5W
0209 VE6EX 559 AB Dan 5W
0210 WE9K 559 WI Glenn 5W
0211 NK6A 559 CA Don 5W
0212 KI0II 599 CO Ron 1W
0212 W9UQB/7 559 AZ Mike 5w
0213 VE6JAZ 559 AB Bob 5W
0214 W9HL 559 IL Randy 5W
0215 W5YR 559 TX George 5W
0216 K5LN 559 TX Bill 5W
0217 K6VNX 559 CA Arlen 5W
0218 K7WW 559 OR Art 5W
0218 K0EVZ 589 ND Doc 2w
0219 N0TK 579 CO Dan 5w
0220 N0AR 579 MN Scott 5w
0221 N6WG 559 CA Bob 5W
0222 N5UW 579 OK Clif 5W
0223 AA5O 559 LA Vern 5W
0223 K8CV 559 MI Walt 5W
0224 K5DI 599 NM Karl 5W
0225 N1TP 559 FL Tom 3W
0226 AC6UV 559 CA Goudy 5W
0227 W6KI 559 CA Glen 5W
0228 N3BJ 559 VA Alan 5W
0229 N7TX 579 TX Steve 5W
0230 KB9YIG 569 IN Tony 5W
0231 K5ZTY 559 TX Bill 5W
0232 K5OI 559 OK Tim 5w
0233 K3PH 579 PA Bob 5w
0234 W5OHL 599 OK Jim 5w
0235 W8VJW 559 MI John 5w
0237 N3ZPQ 559 MD Frank 5w
0239 K4ADI 559 SC Frank 5w
0240 W5USJ 559 TX Chuck 5w
0241 W0UFO 559 MN Mert 5w
0241 K4TJD 559 GA Tom 5w
0242 VE5RC 559 SK Bruce 5w
0243 AB0CD 559 Dick CO 5w
0245 W5TB 559 TX Doc 5W
0246 N9IJ 589 IL Len 5w
0247 N5IB 559 LA Jim 5W
0248 KE6RS 559 CA Ron 5W

0249 K3IU 559 RI Ken 5w
0250 KR5C 579 TX George 5W
0251 WA9TZE 559 WI Jim 5W
0252 K5DW 559 TX Don 5W
0253 KC1FB 559 CT Jim 5W
0253 K5JHP 559 TX BILL 5W
0254 N0DSP 559 CO TOM 5W
0255 K9IS 559 WI STEVE 5W
0256 N0UR 579 MN JIM 5W
0257 AA4LR 579 GA BILL 5W
0258 KV4EE 559 SC CRAIG 5W
0259 K9WIS 559 WI BRIAN 1W
0300 KJ0C 589 MO JIM 5W
0301 N9AW 559 WI JERRY 5W
0302 AF4PS 559 FL MAC 3W
0303 N4MAP 559 GA SAM 4W
0304 NQ7K 559 AZ MIKE 5W
0305 KD5KXF 559 TX MIKE 5W
0306 K8KFJ 559 WV GARIE5W
0307 K4FB 569 FL PAUL 5W
0307 W9XU 559 WI LON 5W
0308 N0RC 599 CO ROD 5W
0308 AF4PP 559 GA CHUCK 5W
0309 NK9G 559 WI RICK 5W
0310 W0PWE 559 IA JERRY 5W
0311 VA6RF 559 AB EARL 5W
0312 WV9N 559 OH RANDY 5W
0313 AD6JV 559 CA BILL 5W
0314 VE3FAL 579 ON FRED 5W
0315 KB9LGJ 559 CA TIM 5W
0316 KC0ATC 559 CO CHRIS 3W
0317 NU4N 559 KY DAVE 5W
0318 N2WW 559 CO LARRY 5W
0319 WA7LNW 559 UT JACK 5W
0320 NM5M 559 TX ERIC 5W
0321 WA8BXN 559 OH MIKE 5W
0322 K3KD 559 TX DAVE 5W
0323 VA3JFF 559 QC JEFF 2W
0324 VE4WI 559 MB CRAIG 5W
0325 AA7EQ 559 AZ BOB 5W
0326 KV2X 559 NY TOM 5W
0327 K5EOA 559 LA WAYNE 4W
0329 KG4LDY 559 VA JIM 5W
0330 NX8C 559 MI NEIL 5W
0332 W2XN 559 FL FRED 5W
0334 AB5XQ 559 AR BILL 5W
0335 K4BYF 559 FL JACK 5W
0337 K7EL 559 OR DAVE 5W

0338 WD5CMA 559 LA GLORIA 5W
0339 AJ4AY 559 AL JAY 5W
0340 W5YW 559 LA MIKE 5W
0342 N0HRL 559 MN KEN 5W
0343 KG6CYN 559 CA TREV 5W
0344 W8RU 599 MI RON 5W
0345 N5WL 559 OK BART 5W
0347 NQ7T 559 WA GARY 5W
0349 WB8WTU 559 OH DENNIS 5W
0350 KB1DXC 559 CT MIKE 5W
0351 K3NG 559 PA GOODY 5W
0352 N5EN 559 TX STEVE 5W
0354 N2LO 559 NJ BOB 5W
0355 K5BGB 579 TX ROD 5W
0356 N9WW 599 IL JIM 5W
0358 KQ5U 599 TX TERRY 5W
0359 N0TU 599 CO STEVE 5W

Steve/n0tu
----- Original Message -----
From: <RandScott@aol.com>
To: <n0tu@webaccess.net>
Sent: Sunday, November 18, 2001 9:33 AM
Subject: Re: Corrected and FINI FOX log#5 rev6

Date: Sun, 18 Nov 2001 11:08:08 -0600
From: "George, W5YR" <w5yr@att.net>
To: n0tu@webaccess.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112073] Re: Corrected and FINI FOX log#5 rev7
Message-ID: <3BF7EAF8.24C3855C@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Steve/n0tu wrote:

> It was N2WW it was Larry of course! I knew I worked some one w/loud sig!
> TKS!

Especially if it was machine-perfect CW at 40 wpm!   <:}

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Date: Sun, 18 Nov 2001 12:10:37 -0500
From: "Ed Tanton" <n4xy@att.net>
To: "QRP-L Reflector" <qrp-l@Lehigh.EDU>
Subject: [112074] FW: [drakelist] FS: WH-7 Wattmeter
Message-ID: <001a01c17053$f1d243d0$e2fa5b0c@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="US-ASCII"
Content-Transfer-Encoding: 7bit

This wattmeter has a very nice 20W (20-200-200) scale.

73 Ed Tanton N4XY <n4xy@arrl.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: http://www.n4xy.com

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA   GACW   QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

-----Original Message-----
From: owner-drakelist@www.zerobeat.net
[mailto:owner-drakelist@www.zerobeat.net] On Behalf Of Aidehua@aol.com
Sent: Sunday, November 18, 2001 5:41 AM
To: Drake-Radios@yahoogroups.com; drake@qth.com;
drakelist@www.zerobeat.net
Subject: [drakelist] FS: WH-7 Wattmeter

Excellent condition. Non sticky cabinet. $100.

73,

Ed NI6S

Submissions: drakelist@www.zerobeat.net
Subscribe: majordomo@www.zerobeat.net - subscribe drakelist in body
Unsubscribe: majordomo@www.zerobeat.net - unsubscribe drakelist in body
Hopelessly Lost: majordomo@www.zerobeat.net - help in body of message
Brought to you courtesy of TLCHost.net http://www.tlchost.net/

Date: Sun, 18 Nov 2001 11:43:49 -0600
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "Low Power Amateur Radio Discussion (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [112075] A tunable tuna? VFO for the TT2/80 (Extra Long)
Message-ID: <01C17026.4A9F3320.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

You can tune a piano but you can't tune a fish? Don't be so sure.

This started as a project to add a VFO to my 80-meter tuna tin, since Jim (KJ5TF) was adamant that I must be able to check into the AR QRP net on 3560 with it. I know building a VFO for a TT2 is like putting a $100 saddle on a $50 horse, but it seemed like a fun thing to play with. So here are my "pilgrim's progress" notes on the undertaking.

Decided to go with the 80 meter VFO in Solid State Design for the Radio Amateur (SSDRA) of fig. 6, chapter 3, page 36. It includes a DC coupled two stage amplifier for isolation and some gain. I decided to use a 78L06 instead of zener regulation and to use varicap tuning instead of an air variable.

I thought about finding a "prime" JFET for the MPF102 but decided what the heck, I'll try this weird looking, house-marked alleged MPF102 that's been in my junk box for 25 years. Remember ADVA?

I haven't had a lot of experience in building stable VFOs. I guess you typically use some negative drift type capacitors (polystyrene?) to counter the positive drift of the iron powder toroid. Sounds tedious. Another possibility for better stability would be to use an air wound inductor, but then you have to maintain a lot of spacing between the coil and the enclosure sides and the board to avoid detuning. The toroid is a must for compactness. A slug tuned solenoid would be another alternative. The

design calls for 30 turns on a T68-2. It looks like a -6 (yellow) type core has a lot lower temperature coefficient, but 80 meters skirts the lower edge of its specified frequency use range. So I'm sticking with the specified red core for now.

It worked right off the bat. Sounded good in the receiver and looked good on the scope. As I closed in on the desired frequency and added the varicap, I wound up taking five turns off the inductor. It started around 5.2 uH and ended up around 4.4 uH.

Things got a little strange when I added the varicap for tuning. I used an MV2301 and added a second T092 regulator, a 78L09, because I needed more voltage than the regulated 6 V used for the oscillator. Now the signal in the receiver took on kind of a "grainy" sound. Llike it was jumping but not far enough that I could even detect a pitch change. That turned out to be the case. I tried potting the toroid. First, I made my own Q-dope by melting styrofoam peanuts in acetone. It created a truly disgusting looking sludge, totally unsuitable for a coil sealant. (I think you're supposed to use toluene.) So then I potted it with hot glue. That looked OK but didn't cure the problem. Suspecting the regulator was almost too obvious, but when I finally put a meter on it, I saw the voltage moving plus and minus 0.1 volts from nominal. Stuck in a different 78L09, same lot and everything, and things were fine. Hmm?

Now drift after warmup (measured with the great little SSS counter) is tolerable. Well, tolerable to a man who grew up with a VF-1, anyway.

How to select the tuning pot? How much range to go for? My main constraint was that I didn't want to shell out for a 10-turn pot and didn't want to install a reduction drive. Simplicity is the word! That being the case, I decided to use a "regular" pot and keep the range small so the tuning rate wouldn't be too fast. How about 3558 (just below the QRP frequency) to 3582 (just above the TV sweep crystal frequency)? That would give me a range of 24 kHz in one turn. Tolerable compromise? An alternate would be to use a large and a small pot in series, giving me a coarse and fine control. Or as we used to call it, Main Tuning and Bandspread.

OK-How's this thing going to work when I'm using it on the air? I know the VFO drifts some for a few minutes after being turned on, so I can't power it down every time I go to receive. But if I use a separate receiver and leave the VFO on, it will be QRMimg me. I wouldn't have this problem if I were using a direct conversion receiver with the same VFO acting as a local oscillator. I'd just want to shift it 700 Hz or so to give me my offset. But with a separate receiver, I need to shift it far enough be well out of the receiver's passband. I figured about 10 kHz should do it. The VFO in SSDRA already provides such a scheme. I used a 10 pF NPO disk from the gate of the FET to ground through a 1N914. The diode is turned on by applying current through a 12 K resistor to the junction of the capacitor

and 1N914. Since the TT2 is keyed by switching its 12V power, it's simple to wire that keyed 12 volts to the 12 K resistor. Now, will it chirp when keyed at moderate speeds? No-the chirp is not bad. The actual shift I got is about 7 kHz. Since I'm using an FT-1000 for a receiver, that's plenty of spacing.

Now, interfacing to the TT2. To my unsophisticated eye, the oscillator stage of the TT2 would look like an amplifier if I just took the crystal out and applied drive at the base. And that did work, but ? Power out of the TT2 was now only 160 mW. And I thought this VFO would overdrive the TT2. Not so. After some head scratching, I recalled that Mr. Demaw had said that C2 and L1 in the collector circuit of Q1 are not resonant at the operating frequency. So I figured if I made them resonant it might raise the output and the amount of drive to Q2. So I dropped C2 from its 80 meter value of 200 pF all the way to 68 pF. This resonates it with the measured 29.3 uH of L1 at 3560 kHz. That had the desired effect and my output power rose to a respectable 270 mW.

Now the fun part. With the boards lashed together with test leads, I warm it up and get ready to CQ. Oh no! There's a Spanish language QSO on 3560 at ten over nine! But now I've got a VFO. Just moved up to about 3562 and put out a CQ. Got an answer immediately from WA5OES near Denver. He says, wow, a quarter watt, my wristwatch has more power than that! He's running a Ranger at 50 watts and an RME receiver, so it's interesting equipment all around.

It helps to have a few good tools when building and modifying circuits:

The AADE capacitance/inductance meter is a big help. Remember that the toriod formula just gets you in the ballpark on inductance.
An oscilloscope is nice, but a simple rf probe probably would have served me as well.
The SSS frequency meter was really handy--both for tweaking components on to the right frequency and for plotting drift.
My excel spreadsheet of handy formulas got a good workout too.

Tweaking components on a VFO can get a little confusing to a beginner. (Yesterday I was a beginner. Today I'm an expert.) You know you have a resonant tank circuit and you want to know how much to vary the capacitance to give a desired tuning range. Straightforward, with a couple simple calculations. But then you look at the circuit and say, jeez--which of these components are part of the tank circuit? SSDRA addresses that to a certain extent in chapter 3, figure 5. In the VFO of figure 6, the inductance of the tank is just L1. But the effective capacitance in parallel with L1 would be figured like this: Take C2 in parallel with the 1000 pF divider cap, then take that in series with the other 1000 pF cap, then take that value in series with the 510 pF cap, then take all that in parallel with C1. (I changed the tuning capacitor to a 68 pF

poly-something in parallel with a 10 to 50 pF trimmer, since I was using a varicap for tuning.)

Now, deciding the voltage range needed to make the varicap tune the desired range, that's a whole other post. But it helps to have measurements of the capacitance of that diode (varicap) type over a wide range of voltages for a starter.

Enough for now--

72--Nick, WA5BDU

Date: Sun, 18 Nov 2001 11:10:15 -0700
From: "Rod N0RC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112076] D-Region Prediction Sample Movie
Message-ID: <000501c1705c$46694210$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

Way back in April we experienced an X5.6 flare, graph at:

  http://www.sel.noaa.gov/rt_plots/dregionMovie/xray10994.gif

The SEC has made available an animated D-region absorption plot that resulted from that flare at:

  http://www.sel.noaa.gov/rt_plots/dregionMovie/index.html

Not the upper frequencies affected, >30MHz!

Though some might be interested.

73, Rod N0RC
Ft Collins, CO

Date: Mon, 19 Nov 2001 00:02:47 -0600

From: "Mike Malone" <mmalone@worldlogon.com>
To: <nkennedy@tcainternet.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112077] Re: A tunable tuna? VFO for the TT2/80 (Extra Long)
Message-ID: <000801c170bf$d1d8df00$6ff5a7cc@malonefamily>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks for sharing your adventure Nick. That sounds like a great project.
I bought an extra TT2 kit and am going to put it in a 1lb coffee can with a
simple superhet rx and hopefully share the vfo with the TT2. I am going to
base the rx on the CSS the Iowa QRP club did and put a keyer in it and beef
the power up to 3 watts with a amp and filter. And yeah, does sound like a
way to put a 100 dollar saddle on a 50 dollar horse... but hey... it's my
horse and my barn. LOL
-----Original Message-----
From: Nick Kennedy <nkennedy@tcainternet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Sunday, November 18, 2001 11:55 AM
Subject: A tunable tuna? VFO for the TT2/80 (Extra Long)

>You can tune a piano but you can't tune a fish? Don't be so sure.
>
>This started as a project to add a VFO to my 80-meter tuna tin, since Jim
>(KJ5TF) was adamant that I must be able to check into the AR QRP net on
>3560 with it. I know building a VFO for a TT2 is like putting a $100
>saddle on a $50 horse, but it seemed like a fun thing to play with. So
>here are my "pilgrim's progress" notes on the undertaking.
>
>Decided to go with the 80 meter VFO in Solid State Design for the Radio
>Amateur (SSDRA) of fig. 6, chapter 3, page 36. It includes a DC coupled
>two stage amplifier for isolation and some gain. I decided to use a 78L06
>instead of zener regulation and to use varicap tuning instead of an air
>variable.
>
>I thought about finding a "prime" JFET for the MPF102 but decided what the
>heck, I'll try this weird looking, house-marked alleged MPF102 that's been
>in my junk box for 25 years. Remember ADVA?
>
>I haven't had a lot of experience in building stable VFOs. I guess you
>typically use some negative drift type capacitors (polystyrene?) to counter
>the positive drift of the iron powder toroid. Sounds tedious. Another
>possibility for better stability would be to use an air wound inductor, but
>then you have to maintain a lot of spacing between the coil and the
>enclosure sides and the board to avoid detuning. The toroid is a must for

>compactness. A slug tuned solenoid would be another alternative. The
>design calls for 30 turns on a T68-2. It looks like a -6 (yellow) type
>core has a lot lower temperature coefficient, but 80 meters skirts the
>lower edge of its specified frequency use range. So I'm sticking with the
>specified red core for now.
>
>It worked right off the bat. Sounded good in the receiver and looked good
>on the scope. As I closed in on the desired frequency and added the
>varicap, I wound up taking five turns off the inductor. It started around
>5.2 uH and ended up around 4.4 uH.
>
>Things got a little strange when I added the varicap for tuning. I used an
>MV2301 and added a second T092 regulator, a 78L09, because I needed more
>voltage than the regulated 6 V used for the oscillator. Now the signal in
>the receiver took on kind of a "grainy" sound. Llike it was jumping but
>not far enough that I could even detect a pitch change. That turned out to
>be the case. I tried potting the toroid. First, I made my own Q-dope by
>melting styrofoam peanuts in acetone. It created a truly disgusting
>looking sludge, totally unsuitable for a coil sealant. (I think you're
>supposed to use toluene.) So then I potted it with hot glue. That looked
>OK but didn't cure the problem. Suspecting the regulator was almost too
>obvious, but when I finally put a meter on it, I saw the voltage moving
>plus and minus 0.1 volts from nominal. Stuck in a different 78L09, same
>lot and everything, and things were fine. Hmm?
>
>Now drift after warmup (measured with the great little SSS counter) is
>tolerable. Well, tolerable to a man who grew up with a VF-1, anyway.
>
>How to select the tuning pot? How much range to go for? My main
>constraint was that I didn't want to shell out for a 10-turn pot and didn't
>want to install a reduction drive. Simplicity is the word! That being the
>case, I decided to use a "regular" pot and keep the range small so the
>tuning rate wouldn't be too fast. How about 3558 (just below the QRP
>frequency) to 3582 (just above the TV sweep crystal frequency)? That would
>give me a range of 24 kHz in one turn. Tolerable compromise? An alternate
>would be to use a large and a small pot in series, giving me a coarse and
>fine control. Or as we used to call it, Main Tuning and Bandspread.
>
>OK-How's this thing going to work when I'm using it on the air? I know the
>VFO drifts some for a few minutes after being turned on, so I can't power
>it down every time I go to receive. But if I use a separate receiver and
>leave the VFO on, it will be QRMimg me. I wouldn't have this problem if I
>were using a direct conversion receiver with the same VFO acting as a local
>oscillator. I'd just want to shift it 700 Hz or so to give me my offset.
> But with a separate receiver, I need to shift it far enough be well out of
>the receiver's passband. I figured about 10 kHz should do it. The VFO in
>SSDRA already provides such a scheme. I used a 10 pF NPO disk from the
>gate of the FET to ground through a 1N914. The diode is turned on by

>applying current through a 12 K resistor to the junction of the capacitor
>and 1N914. Since the TT2 is keyed by switching its 12V power, it's simple
>to wire that keyed 12 volts to the 12 K resistor. Now, will it chirp when
>keyed at moderate speeds? No-the chirp is not bad. The actual shift I got
>is about 7 kHz. Since I'm using an FT-1000 for a receiver, that's plenty
>of spacing.
>
>Now, interfacing to the TT2. To my unsophisticated eye, the oscillator
>stage of the TT2 would look like an amplifier if I just took the crystal
>out and applied drive at the base. And that did work, but ? Power out of
>the TT2 was now only 160 mW. And I thought this VFO would overdrive the
>TT2. Not so. After some head scratching, I recalled that Mr. Demaw had
>said that C2 and L1 in the collector circuit of Q1 are not resonant at the
>operating frequency. So I figured if I made them resonant it might raise
>the output and the amount of drive to Q2. So I dropped C2 from its 80
>meter value of 200 pF all the way to 68 pF. This resonates it with the
>measured 29.3 uH of L1 at 3560 kHz. That had the desired effect and my
>output power rose to a respectable 270 mW.
>
>Now the fun part. With the boards lashed together with test leads, I warm
>it up and get ready to CQ. Oh no! There's a Spanish language QSO on 3560
>at ten over nine! But now I've got a VFO. Just moved up to about 3562 and
>put out a CQ. Got an answer immediately from WA5OES near Denver. He says,
>wow, a quarter watt, my wristwatch has more power than that! He's running
>a Ranger at 50 watts and an RME receiver, so it's interesting equipment all
>around.
>
>It helps to have a few good tools when building and modifying circuits:
>
>The AADE capacitance/inductance meter is a big help. Remember that the
>toriod formula just gets you in the ballpark on inductance.
>An oscilloscope is nice, but a simple rf probe probably would have served
>me as well.
>The SSS frequency meter was really handy--both for tweaking components on
>to the right frequency and for plotting drift.
>My excel spreadsheet of handy formulas got a good workout too.
>
>Tweaking components on a VFO can get a little confusing to a beginner.
> (Yesterday I was a beginner. Today I'm an expert.) You know you have a
>resonant tank circuit and you want to know how much to vary the capacitance
>to give a desired tuning range. Straightforward, with a couple simple
>calculations. But then you look at the circuit and say, jeez--which of
>these components are part of the tank circuit? SSDRA addresses that to a
>certain extent in chapter 3, figure 5. In the VFO of figure 6, the
>inductance of the tank is just L1. But the effective capacitance in
>parallel with L1 would be figured like this: Take C2 in parallel with the
>1000 pF divider cap, then take that in series with the other 1000 pF cap,
>then take that value in series with the 510 pF cap, then take all that in

>parallel with C1. (I changed the tuning capacitor to a 68 pF
>poly-something in parallel with a 10 to 50 pF trimmer, since I was using a
>varicap for tuning.)
>
>Now, deciding the voltage range needed to make the varicap tune the desired
>range, that's a whole other post. But it helps to have measurements of the
>capacitance of that diode (varicap) type over a wide range of voltages for
>a starter.
>
>Enough for now--
>
>72--Nick, WA5BDU
>

Date: Sun, 18 Nov 2001 13:15:36 -0500
From: Donn Kuse <casey.jay@gte.net>
To: unlisted-recipients:; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112078] Re: Tiny-Tornado Kit Update
Message-ID: <3BF7FAC8.6C860D04@gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Brice,
The photos are great. Really looking forward to mine when it gets here. The photos will really help me since I've never built one of these before. Hope you keep the photos up for a while, didn't print all of them. Hope the back of my board will look as good as yours!
73/72 Donn, WB4ZWT
66 and still learning

Date: Sun, 18 Nov 2001 13:20:50 -0500
From: Dave Fouchey <dafouchey@home.com>
To: richqrp@home.com,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112079] Re: Meteor shower
Message-ID: <4.1.20011118131953.009ac920@localhost>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Solid fog, less than a quarter mile visibility, in short a bust in
Southeast Michigan

Dave
WA4EMR/8

At 08:04 AM 11/18/2001 -0800, Rich Wilkerson wrote:
>The same here in So. Cal. 0200 - 0300, outside temp was nice, just a very
>nice show.
> 73, Rich WD6FDD
>----- Original Message -----
>From: "Michael Fletcher" <kl7ixi@home.com>
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Sent: Sunday, November 18, 2001 7:56 AM
>Subject: Re: Meteor shower
>
>
>> A beautiful view in the frosty Seattle area last night around 0200-0300.
>> 72,
>> Mike KL7IXI/7
>>

Date: Sun, 18 Nov 2001 13:44:56 -0500
From: Donn Kuse <casey.jay@gte.net>
To: "qrp-l@Lehigh.EDU" <qrp-l@Lehigh.EDU>
Subject: [112080] Digital Multimeter
Message-ID: <3BF801A8.684033D4@gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi all,
Need your help in understanding my DMM for the upcoming Elmer 101
course. The instructions on the meter I got aren't clear and I've never
used one before. It's the Pro-testor 03-150N as seen on page 90 of the
current AES catalog (yellow case). Does anyone have this meter and
could explain how to use it? Thanks.
73, Donn, WB4ZWT
66 and still trying to learn

Date: Sun, 18 Nov 2001 13:57:32 -0500 (EST)
From: wb0wao@hotmail.com (Dennis Ponsness)
To: qrp-l@Lehigh.EDU, fpqrp-l@mpna.com
Subject: [112081] SS Update.
Message-ID: <24690-3BF8049C-1226@storefull-263.iap.bryant.webtv.net>
Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)

Almost there 79 sections!   Worked several QRP stations:
K7SS   WWA
K7MM EWA
N7VY   AZ
N4RZ   KY
KL7Y   AK

Having a ball - Next year I will run QRP in the 'test!   But now, time
to get that VY station!

72 es oo

Dennis - WB0WAO

Date: Sun, 18 Nov 2001 12:39:13 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-l@lehigh.edu>
Subject: [112082] Serious problem
Message-ID: <Pine.LNX.4.33.0111181233360.2223-100000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Last week my hearing dropped from bad to almost totally deaf. I
have an appointment with a specialist Monday and will know more after that
event. At the current time I can't hear without earphones at high level.
I'm watching the Cowgirls get beat in football; the new quarterback is
great at handoffs but his passes are terrible. I expect to be very active
with psk-31 and rtty in the future. To say the least it has changed my
life a great deal.

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

http://www.qsl.net/k5di/

Date: Sun, 18 Nov 2001 14:46:52 -0800
From: "stan mcintosh" <mcintosh@triad.rr.com>
To: <qrp-l@lehigh.edu>
Subject: [112083] Solder Hazards
Message-ID: <000a01c17082$eafb9460$3119a318@triad.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The subject of lead in solder fumes seems to be a qrp-l evergreen, much like the qrp-ness of a directional antenna (factoring 'gain' into power calculations'), harmonic noise of Ramsey transmitters, or whether no-coders should be allowed to continue to breathe the same air as the rest of us. So, please forgive me if I have already related this story in a previous round of solder-related exchanges. However...

A few years ago, at my former place of employment, we were looking at a non-traditional application for solder flux resin. In this application, there were going to be lots of hot surfaces, with a potential of 'flux' fumes. I contacted a consultant that specializes in solder-related issues. He said that the main hazard of flux fumes would be to people that have elevated tree allergies. Otherwise, according to a list of references he gave me, rosin fumes are innocuous. While I had the consultant on the phone, I also asked about traditional solder flux uses and related hazards. He quickly dismissed the idea of lead in fumes as urban legend, but cautioned that lead poisoning is still a risk. Lead is a very soft metal, and it can rub off with handling. Eating, drinking, and smoking during soldering should be prohibited, since they can all provide a means of transferring lead into the body through the mouth. Any person soldering should also be very careful to wash thoroughly before going on to another activity.

After talking with him, I began to wash religiously as a wrap-up to tinkering at the bench. Even now, I won't leave the bench without heading straight for the lavatory.

As an aside, the consultant was one of Werner von Braun's technicians with the space program. I wish I could remember his name, his rocket stories were very entertaining.

72
stan

Date: Sun, 18 Nov 2001 11:49:48 -0800
From: Jim Lowman <jmlowman@directvinternet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112084] Re: [OP] QRP DXCC Suggestions?
Message-ID: <3BF810DC.F24CA60D@directvinternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Although it doesn't say so explicitly in the article in QST, I didn't notice that one has to be an ARRL member to be eligible for the award. I would guess that the average QRPer is not a member, although I have been wrong before.

To further verify this, I went to the ARRL operating awards page at:

http://www.arrl.org/awards/

and noticed that it IS necessary to be a League member to participate. The new QRP DXCC award is also shown on this page.

Ed, some clarification here?

I look at the $10 fee as a processing cost. After all, some Special Event promoters often ask for a buck or three to cover the cost of postage and printing of the certificate.

If non-League members are eligible for the award, that puts them on the same basis as those of us who are; i.e. we ALL pay the $10 fee. So if anyone should be unhappy, it should be the members.

Some years ago, ARRL instituted a fee for all of the awards given, and I recall that it made a LOT of members unhappy. Realistically, though, the League is engaging in the common business practice of passing costs along to the end user. Not everyone chases paper, so it's unfair to expect individual members to subsidize the awards program.

I, for one, applaud the League for recognizing the QRP crowd with this award, as well as Rich's monthly column on QRP in QST and Ed's advocacy of our Special Interest Group within amateur radio.

72 de Jim - AD6CW

w2wurjj wrote:
>
> No, your are not emulating W2SND, as your objection is based in logical
> pragmatism and conservatism. My prima facie feeling is: They are setting a
> precedent and would contend the charge offsets the administrative and processing
> functions / expenses. After all this is a quid pro quo situation [Certificate
> for money]. Is it Ethical, professional, or within statutory limitations /
> reason? Comments please. 73, Ron, W2WU
> Lee Mairs wrote:
>
> > I'm in the mood for a rant, so please bear with me.
> >
> > I read the article in QST today and ended up steaming. They have turned the
> > QRP DXCC thing into an obnoxious quest to fill the coffers with more money.
> > Why must one pay $10 to get the certificate when the league does nothing to
> > support the effort? No card checking, no list checking, just send in your
> > money and get the certificate.
> > Geez! Am I starting to sound like W2NSD?
> >
> > 73 de Lee, KM4YY
> >
> > If ever we hear a case of lying, we must look for a severe parents. A lie
> > would have no sense unless the truth were felt as dangerous.
> >   --Alfred Alder

Date: Sun, 18 Nov 2001 14:51:55 -0500
From: "Howard Kraus" <K2UD@adelphia.net>
To: <mark_ke5my@juno.com>
Cc: <qrp-l@Lehigh.EDU>
Subject: [112085] Re: Hello.....anybody there?
Message-ID: <008b01c1706a$79df34c0$9e613018@buf.adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sorry to inconvenience you Mark, I can't post to the list unless I cc: to
the list.

IS THE LIST MANAGER OUT THERE? Like it says above, I can't post to the list
unless I cc: to it from a previous message. I've sent a message to the list
manager, no reply. Is there such a person? I subscribe to the list and do
receive regular postings. I simply cannot post to the list if I send my
e-mail direct to qrp-l@Lehigh.EDU. Help, someone please!

72 all

Howard Kraus, K2UD

> Since 11/12, I haven't gotten ANY messages from the reflector
> whatsoever. This has happened once before, and I just don't
> understand why this keeps happening. I've just sent a message to the
> list manager, and maybe that will help. Hope I'm still subscribed to
> this
> reflector.
> 73, Mark, KE5MY
> Hopefully, still
> QRP-L # 2365
>/.

Date: Sun, 18 Nov 2001 14:08:30 -0600
From: "George, W5YR" <w5yr@att.net>
To: k5di@zianet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112086] Re: Serious problem
Message-ID: <3BF8153E.92169BD0@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Very sad news, Karl . . . do you think that you will be able to continue with CW? A Fox Hunt wouldn't be a Hunt without K5DI in there! <:}

If worse comes to worse, you can fall back on QRP PSK31 and still have a lot of fun. I have worked several 817's on PSK31 and all were good signals.

Keep us posted, please.

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

"Karl F. Larsen" wrote:
>
> Last week my hearing dropped from bad to almost totally deaf. I
> have an appointment with a specialist Monday and will know more after that
> event. At the current time I can't hear without earphones at high level.

> I'm watching the Cowgirls get beat in football; the new quarterback is
> great at handoffs but his passes are terrible. I expect to be very active
> with psk-31 and rtty in the future. To say the least it has changed my
> life a great deal.

Date: Sun, 18 Nov 2001 12:16:26 -0800
From: "Alan" <jcs4us@earthlink.net>
To: <qrp-l@lehigh.edu>
Subject: [112087] FS: Like New Power Pocket 2.0 amp @ 12vdc
Message-ID: <010901c1706d$e79da8e0$0100a8c0@alh>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

For Sale: Like New NCG Company "POWER POCKET".
This is a 12-vdc 2 amp hour lead acid battery with case, charger, shoulder
strap.
Can been seen on page 144 of the current AES Catalog. Or I can take a
digital
photo of it and email it to you... Paid $66.99 Will sell for $45.00 obo

Have a GREAT WEEK!! Alan KQ6MD

Date: Sun, 18 Nov 2001 13:16:26 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: <aa4lr@arrl.net>, <IamSF5@aol.com>
Cc: qrp-l <qrp-l@lehigh.edu>
Subject: [112088] Coax Loss
Message-ID: <B81D652A.F0B5%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
Content-transfer-encoding: quoted-printable

Bill - I fear that you may have given Bob some misleading advice when he
said that he was going to use 75 Ohm CATV coax:

"75 ohm coax isn't the best choice for feeding antennas. It may have a lot
more resistive losses than 50 ohm coax, and also higher losses due to the
SWR present on the cable."

Comparing 50 Ohm and 75 Ohm coax with equal diameter center conductors and
similar construction, we find that 75 Ohm coax will have lower losses.

The losses in a coax cable are given by:

A(in dB/100 ft) =3D(0.435/Z*D)*[(D/d)*(K1+K2)] + dielectric losses

where Z is the characteristic impedance of the line, D the outside diameter=
,
and d is the inner conductor diameter. K1 and K2 are braid and strand
factors respectively which deal with the type of construction of the outer
conductor. The dielectric losses depend only on the dielectric used in the
coax construction and the frequency of operation. They are independent of
the characteristic impedance of the coax. They are usually unimportant at H=
F
for the dielectrics found in most good quality coax. If you have a 19th
edition of the "ARRl Antenna Book" you will find that this equation is
essentially similar to Equation J in Table 2 on page 24-20.

Now, since Z appears in the denominator, the losses are inversely
proportional to the line impedance. For lines of similar construction, 75
Ohm coax will have lower losses than 50 Ohm coax. This is also the reason
why balanced feeders are thought of as lower loss than coax. Balanced
feeders almost always have higher impedance. than the coax they are being
compared with.

You can verify this by looking up the feedline losses for various coax
types in the ARRl Antenna Book or Handbook. The difference is not great, a
few tenths of dBs, but it is real.

What of additional losses for a 50 Ohm antenna fed with 75 Ohm coax?
Consider a 10 Mhz dipole fed with a 50 Ohm feedpoint impedance. The SWR wit=
h
50 Ohm coax is 1:1. For a 100 ft of RG-58 coax (say Belden 8240), the line
losses will be 1.1 dB. Now if we feed the antenna with Bob's favorite CATV
75 Ohm coax, RG-6, the SWR will be 1.5:1. The matched line loss will be
0.8=A0dB, and we must add in the additional losses due to the higher SWR. Thi=
s
information can be found in Figure 14 in the aforementioned ARRL Antenna
Book. At an SWR of 1.5:1 and a matched line loss of 0.8 dB, the additional
losses are off the bottom of the chart and will be much less than 0.1 dB!
Call it 0.1 dB for the sake of arguement. Now we have 1.1 dB losses for the
50 Ohm coax case and 0.9 dB losses for the 75 Ohm case. Not an earth
shattering difference, but still it does not support your contentnion that
the 75 Ohm coax will be lossier.

Well suppose that antenna feedpoint impedance is 25 Ohms, presenting a 2:1
SWR to the 50 Ohm coax and a 3:1 SWR to the 75 Ohm coax? well the 50 Ohm
coax will have an additional 0.2 dB loss bringing the total line loss to 1.=
3

dB, and the 75 Ohm coax will have an additional 0.4 dB loss bringing the
total loss up to 1.2 dB. The 75 Ohm coax is still better, but not by much.
Call it a wash. As the feedpoint impedance goes lower, the additional losse=
s
in the 50 Ohm coax grow less fast than those in the 75 Ohm coax. At a 10 Oh=
m
feedpoint impedance the losses are about equal, but at that point one shoul=
d
think about using some sort of matching device at the antenna.

Of course with antenna impedances on the high side of 75 Ohms, the 75 Ohm
coax will always have lower losses than the 50 Ohm coax since the matched
line loss is lower and the SWR grows faster on the 50 Ohm coax than on the
75 Ohm coax.

So I don't think that Bob has much to worry about using his RG-6 CATV cable=
,
at least at HF. I am not sure that he is gaining a whole lot either, but it
certainly will not lead to the excessive losses you implied, particularly o=
n
40 M. =20

Of course there is some over simplification in the above arguements, but th=
e
basic premise holds. For some reason transmission lines are one of the mos=
t
misunderstood topics in ham radio. Perhaps because we all slept through hig=
h
school trigonometry? :^) I hope that this helps. - Dr. Megacycle KK6MC/5
"Radio Green Chile"
--=20
James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sun, 18 Nov 2001 13:44:05 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: <qrp-l@lehigh.edu>
Subject: [112089] Tuna -Tin 2 Fun
Message-ID: <B81D6BA5.F0B6%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

If you have been reading the recent posts about all the fun that people are

having with their Tuna-Tin 2s and are wondering how you can join in, wonder no longer!

The Tuna Tin 2 kit is available from the Ft.Smith QRP group for $12 including shipping. See:

http://www.fix.net/~jparker/norcal/bttfut/bttfut.htm

No "1" this time.

The Tuna Tin 2 is one of those timeless pieces of gear. Designed and built by Doug DeMaw, W1FB and described in the May 1976 QST, it has all the parts necessary to function, but no more. A tuna fish can serves as the case. In an emergency catfood, pineapple, or smoked almond cans can be substituted. The Tuna Tin 2 was updated by Dave Meacham, W6EMD, at Doug's, KI6DS, urging a few years back. They did a great job updating it with modern components and now it works better than the original. It will attract comments from whomever you show it to, ham or not.

It is a good way to learn about oscillators and amplifiers. The 2 in the name stands for 2 transistors. The first is used as a crystal oscillator and the second as a power amplifier. The manual and web page contain explanations of what all the parts do, so it is an ideal kit to learn why rigs have those 0.1 uF caps everywhere. Finger tip T/R switching is provided, so all you need to get on the air is a receiver. The receiver portion of any HF transceiver will do.

So send your $12 ($15 US for DX) to:

Jay Bromley W5JAY

9505 Bryn Mawr Circle

Fort Smith, AR 72908-9276

If you can corner Jay at a Hamfest he will sell you one for $10 as he doesn't have to pay the shipping. Buy him a diet Dr. Pepper for providing this service.

Now Jay will ship 10 or more of these kits to one address for $10 a piece. They go together in an hour or two, are easy to trouble shoot, and make a good group building project.

These also make great gifts, door prizes, awards, and incentive rewards for upgrading. Help Santa put one of these in your favorite ham's stocking. It might be the ideal way to thank that Elmer that got you started in Ham Radio or building.

I guess that I am sounding like a bit like a shill for the Ft.Smith QRP group these days, but they do offer two simple ways to get into QRP building. Buy both. And they fund Arkiecon with the proceeds. See you at Arkiecon in April. - Dr. Megacycle KK6MC/5 "Radio Green Chile"
--
James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sun, 18 Nov 2001 15:56:01 EST
From: IamSF5@aol.com
To: qrp-l@lehigh.edu
Cc: antennas@qth.edu, fpqrp-l@mpna.com
Subject: [112090] Results of my antenna topic/Read questions at the botttom
Message-ID: <8b.f521344.29297a61@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

First I like to thank everyone who responded via list or direct mail for all the input.
Some of you went into a full page and more.
Thetas what these list are all about.
OK,
Heres what I received and my own calculations that I feel are close.
Three replied about the double bazooka and how great it is.
I think close to 60% said I should use 300 or 450 line to feed the antenna.
Some recommended the G5RV but I cannot use an antenna that has 35 feet of feed line that should hang down and then another 1/4 wave length of coax to that.
My apex can only be 10-12 feet off the roof so I have no room for all the excess cable.
About 90% said to trash the 1.1 voltage balun
I went to Radio works, com and the site detested the 1.1 voltage balun.
I'm not an EE but I know that W2AU and Van Gordon have been selling the 1.1 voltage balun for the last 25 years and I'm sure that many people buying them are not antenna dumb.
Radio works also had a limited space antenna but it was a total failer/The site leans heavy on the products they sell.
So far I have yet seen any professional writing against the 1.1 Voltage balun.(except on radio works site)
Are there really losses with that balun?
Last night I calibrated my tuner with a noise bridge.
I then hooked the tuner to my 20 meter dipole and the SWR was over 4.0 so I pruned it down and confirmed my (Close to resonate antenna with the noise

bridge) and it read 70 ohms fed with CATV coax.
With the tuner in line my swr was 1.3 and 1.5 going through the tuner at 7,125 and dropped as I tuned down.
My log with the CATV coax and the 1.1 voltage balun on 40 meters is NM. 2 contacts, TX 1 contact,CA,three contacts, WA 1 contact, back to CA, 1 contact and then I was called by an HA station.
After signing off another HA station called me.
I took a break then went back on the air and worked France Poland Yugoslavia Slovenia Egypt and Japan.
Rig was the Norcal with the 5 watt mod.
I decided to take one persons advice and string up one long dipole for 80 meters and then tune all the other bands with a tuner.
This is not to implicate that I feel the other information sent to me was incorrect
This building is funded by your tax dollars and they were nice enough to let me put up three antennas.
However I feel that 1 that I can tune all bands with will be a cleaner looking setup.
Also for SWL'ing I have more capture area
My question,
Can anyone tell me why the 1.1 voltage balun is so looked down upon?
Since I'm feeding this antenna with 75 ohm CATV coax,
can I still use a 50 ohm current inline balun to keep stray RF off the line.?
Does 300 or 450 ohm give SWR problems when it's wet or gets twisted up?
Many thanks for all the info sent to me.
I printed most of it out and have it in a folder so I have it whenever I need to access the info.
Thanks to all who put in the time sending me the info I requested.
Bob
WA2HOQrp <tm>

Date: Sun, 18 Nov 2001 12:56:37 -0800 (PST)
From: paul <ptay1253@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [112091] FS mfj 422 keyer
Message-ID: <20011118205637.50524.qmail@web14309.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

FS MFJ 422 keyer fits on Bencher. Electrically good.
Some paint wear and 2 black screws missing.
$35.00 delivered to your door
paul wb2gin

Do You Yahoo!?
Find the one for you at Yahoo! Personals
http://personals.yahoo.com

Date: Sun, 18 Nov 2001 15:55:45 -0500
From: Donn Kuse <casey.jay@gte.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112092] Digital Multimeter
Message-ID: <3BF82051.BAC60C82@gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi all,
Need your help in understanding my DMM for the upcoming Elmer 101 course. The instructions with the meter I got aren't clear and I've never used one before. It's the Pro-testor 03-150N (yellow case) as seen on page 90 of the current AES catalog. Does anyone have this meter and could explain how to use it? Trying to understand some of the readings I get when checking resistors out of circuit among others. Reply direct is okay. Thanks
73, Donn, WB4ZWT
66 and still trying to learn

Date: Sun, 18 Nov 2001 15:59:55 -0800
From: "stan mcintosh" <mcintosh@triad.rr.com>
To: <qrp-l@lehigh.edu>, "Ted Williams" <ted@g0ull.co.uk>
Subject: [112093] Re: Solder Hazards
Message-ID: <000b01c1708d$1f298940$3119a318@triad.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

All I could relate was what the consultant told me, and what the documents that he provided supported. As someone with a severe asthmatic allergy to cotton dust, I can appreciate the problems with being sensitive to a series of compounds. As someone that has worked with some very potent sensitizers, and has had to read the accompanying literature, I will have to stick with my belief that solder flux is not a major sensitizer... for the far majority of the population. We were not made with a cookie cutter, so some people can be very sensitive to compounds that are quite harmless to the majority

of the population. My advisor in graduate school was deathly allergic to shrimp, some people have severe allergies to egg whites, peanuts, etc. Physicians can trigger these reactions, as in the case of using dinitrochlorobenzene to create a sensitization, to enable selective tissue necrosis (not on my skin, thank you very much).

The bottom line is to use some sense, ventilation, and see a physician if symptoms *start* to appear.

As for lead and plumbers, the poisoning would be from ingestion, rather than transdermal absorption. If someone solders and then fails to adequately wash before eating/smoking/nailbiting, then lead can transfer through the process.

72,
stan

Date: Sun, 18 Nov 2001 16:03:49 -0500
From: "Brice D. Hornback" <bdh@cyberbound.net>
To: <k5di@zianet.com>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112094] Re: Serious problem
Message-ID: <00d001c17074$85b78a40$7001a8c0@lwrnc1.in.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Karl,

The SSS and Freq-Mite are great for those who are vision impared. So... how about an AUDIO to VISUAL indicator for CW? A LED could blink in tune with the Morse. If the vision goes too... a simple solenoid could tap out the code on your arm. Just a though...

Don't give up CW. We'll find a way...

72/73 DE KA8MAV (Brice)
Indianapolis, IN   EM79au
QRPp-I #1, QRP ARCI #10972, QRP-L #2360, ARRL
KLQRP, FPQRP -156, ARS #1,138, NETXQRP #27
Instant Messenger ID: ka8mav

QRPp International & Tiny-Tornado Transceiver Kits

http://www.QRPp-I.com

----- Original Message -----
From: Karl F. Larsen <k5di@zianet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Sunday, November 18, 2001 2:39 PM
Subject: Serious problem

>
> Last week my hearing dropped from bad to almost totally deaf. I
> have an appointment with a specialist Monday and will know more after that
> event. At the current time I can't hear without earphones at high level.
> I'm watching the Cowgirls get beat in football; the new quarterback is
> great at handoffs but his passes are terrible. I expect to be very active
> with psk-31 and rtty in the future. To say the least it has changed my
> life a great deal.
>
> --
> Yours Truly,
>
>   - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
>   http://www.qsl.net/k5di/
>

Date: Sun, 18 Nov 2001 13:17:23 -0800
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [112095] XE1ELA Very strong on 28.061 21:16 UTC
Message-ID: <003801c17076$6b30d9e0$08e4b3d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just worked XE1ELA and got a 569 report, he's running 5 watts and was
pounding into Burbank. Go get em...

72/73's
Trev
KG6CYN

Date: Sun, 18 Nov 2001 16:27:45 -0500
From: "Jerry McDermand" <mcdermand@att.net>
To: <qrp-l@Lehigh.EDU>
Subject: [112096] [Elmer101] Kit arrived
Message-ID: <DMEFKBCOKNCJEBOFBMIGMEMJCKAA.mcdermand@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

My sw20+ kit was shipped 11/13 and arrived 11/17/
starting the inventory
let the fun begin.

Jerry
N4xzr/8
qrparci#11012

Date: Sun, 18 Nov 2001 15:36:45 -0600
From: Bill Stietenroth <k5zty@juno.com>
To: qrp-l@lehigh.edu
Subject: [112097] Where'd everyone go?
Message-ID: <20011118.153713.-4037869.5.k5zty@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well, I guess I've been cut off. (no, not that,, from the qrp-l) I
haven't gotten any
in about a week now. Will someone tell me if I'm gettin' in?

Bill, K5ZTY
Houston,TX

Date: Sun, 18 Nov 2001 16:28:15 EST
From: IamSF5@aol.com
To: k5di@zianet.com, qrp-l@lehigh.edu
Subject: [112098] Re: Serious problem
Message-ID: <a3.1f114ac4.292981ef@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 11/18/01 2:38:12 PM Eastern Standard Time, k5di@zianet.com writes:

<<
    Last week my hearing dropped from bad to almost totally deaf. I
 have an appointment with a specialist Monday and will know more after that
 event. At the current time I can't hear without earphones at high level. >>
Karl,
Today they can make you hear and even make you hear things you don't want to hear:)
I know a ham who has 100% no hearing but works CW by placing the head phones on the bones behind the ear.
When I did a lot of hang gliding I had a BONE RADIO,(still have it today)
You tuned in the station you wanted and place each speaker just below the coller bone on each side.
The sound travled through my neck into the back of my head and I flew all day listening to music.
My hearing is not good and my left ear is 67% shot and my good ear has a bit more then 30% loss from the testing I had.
I still use head phones but I keep them slid back above the opening of the ear.
I'm not a Doctor but if you lost it that fast it sounds like some sort of infection.
Keep us posted.
Bob
WA2HOQrp <tm>

Date: Sun, 18 Nov 2001 16:40:46 -0500
From: Doc <70511.3041@compuserve.com>
To: "\"Low Power Amateur Radio" <qrp-l@Lehigh.EDU>
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [112099] HC8N on 21.027.9
Message-ID: <200111181640_MC3-E766-9E84@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
         charset=ISO-8859-1
Content-Disposition: inline

Gang:

HC8N is on 21.027.9 right now (2135Z) and calling CQ. He answers QRP, as=

he picked up my K2 at 5 watts to a GAP Titan DX. Op there is Steve K6AW.=
 =

QSL via AA5BT.

73,
--Doc/K0EVZ

Date: Sun, 18 Nov 2001 13:41:10 -0800
From: Bob Nielsen <nielsen@oz.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112100] Re: [OP] QRP DXCC Suggestions?
Message-ID: <20011118134110.A2113@oz.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

On Sun, Nov 18, 2001 at 11:49:48AM -0800, Jim Lowman wrote:
> Although it doesn't say so explicitly in the article in QST, I didn't
> notice that one has to be an ARRL member to be eligible for the award.
> I would guess that the average QRPer is not a member, although I have
> been wrong before.
>
> To further verify this, I went to the ARRL operating awards page at:
>
> http://www.arrl.org/awards/
>
> and noticed that it IS necessary to be a League member to participate.
> The new QRP DXCC award is also shown on this page.
>
> Ed, some clarification here?

According to the announcement of the QRP DXCC award, ARRL membership is
NOT required:

http://www.arrl.org/awards/dxcc/qrp/index.html

73, Bob N7XY
(ARRL member since 1953)

Date: Sun, 18 Nov 2001 16:54:14 EST
From: NM5Mike@aol.com
To: qrp-l@lehigh.edu (Low Power Amateur Radio Discussion)
Subject: [112101] KL7 on 6 meters

Message-ID: <42.1d98b89f.29298806@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Fellow QRPers:

I just worked KL7HBK in grid B049 on 6 meters CW while running 5 watts into a dipole in my attic!

This contact will certainly be a "memory maker" in my life-long amateur radio adventure.

73,

Eric NM5M (Plano Texas)
EM13

Date: Sun, 18 Nov 2001 14:57:01 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: <IamSF5@aol.com>, qrp-l <qrp-l@lehigh.edu>
Subject: [112102] 1:1 Baluns Voltage or Current?
Message-ID: <B81D7CBC.F0BF%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Bob - Your questions have been raised (and answered) here before:

"So far I have yet seen any professional writing against the 1.1 Voltage balun.(except on radio works site) Are there really losses with that balun?"

The definitive work comparing 1:1 current baluns and voltage baluns is:

Roy W. Lewallen, W7EL, "Baluns: What They Do and How They Do it" page 157
"The ARRL Compendium Volume 1"

Roy coined the words voltage and current balun in this article. Anybody who wants to know about 1:1 baluns in practical use should read this article. The book is still in print and should be available from ARRL or your local bookstore; ISBN: 0-87259-019-4. It has lots of other useful articles as well.

The article tests the balun's effectiveness in practical use at forcing balanced currents in the antenna and feedline fed.

Lewallen's measurements showed that the current balun was more effective in forcing a balnce than the voltage balun. Although this article is often quoted (mistakenly) as saying the voltage balun does not work, Roy says no such thing in the article. In fact, some of his measurements show that the voltage baluns do work, that is they improve the balance of feedline and/or antenna currents. They just don't do it as well as a current balun. Bottom line (my interpretation) is that if you are building a new antenna system or upgrading an old one, install or replace the voltage balun with a current one. If you have a dipole that is working OK with a voltage balun, it probably isn't worth the work to replace it; that is the money spent on a new balun could probably be better spent other places. But if you have the antenna down for maintenence, think about replacing the voltage balun with a current one.

There are two other references that address the voltage vs. current balun issue:

"Building and Usin Baluns and Ununs", by Jerry Sevick, W2FMI, ISBN: 0-943016-09-6

And

"Reflections" (either I or II) by Walt Maxwell W2DU

I find W7EL's treatment more accessible than either of the above. W7EL does not address losses, but Sevick does. Losses have more to do with the proper application and design of a balun than with the type. Most voltage baluns designed for amatuer use have problems, including measureable mismatches and imbalances at both the high and low ends of the HF spectrum. These can lead to losses. The commercial 1:1 baluns marketed by W2AU and VanGorden probably have excessive losses on 80 M and 160 M , but are probably OK, but not great, from a loss standpoint on 40 M to 10 M. The losses are probably on the order of a few tenths of a dB, and not significant enough to be concerned for QRP use.

But a current balun is not a guarantee of low losses. Some of the bead baluns popularized by W2DU use high permeability ferrite beads which are also relatively high loss. In the parlance of magnetics they have a high loss tangent. Again, this is more of a concern for QRO use than for QRP use. A few tenths of dBs dissipated in a bead balun used at the 5 W level is unnoticeable, at the 1500 W level a few tenths of dBs amount to a few watts, and significant heating can result.

In short, if you are building a new antenna system, use a good current balun. If you have an antenna with a voltage balun, I wouldn't replace it until you need to, or do other antenna maintenence work. I wouldn't buy a new voltage balun, but I wouldn't hesitate to use a properly operating

antenna system that incorporated one.

I have posted this information on QRP-L before. Things haven't changed much. Recent editions of the ARRL Handbook also champion current baluns over voltage baluns. The information is out there. Radioworks may be a bit strident and parochial in pushing their current baluns, but the basic physics of the matter points one in that direction as well. I hope that this helps. - Dr. Megacycle KK6MC/5 "Radio Green Chile"
--
James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sun, 18 Nov 2001 14:42:21 -0700
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>, <jamesd1@flash.net>
Subject: [112103] Re: Tuna -Tin 2 Fun
Message-ID: <011401c17079$e81c3140$6a211d82@cos.agilent.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

When Norcal Doug gets those 20m xtals how about a 20m flavor of the TT2? I'm having such FUN time w/my 40m version that I want to try one on 30, 20 ..etc.

I'm setting here looking at this DDS VFO on the shelf that would drive the socks off my TT2? Hmmm? I guess thats kinda like putting a $300 synthetic saddle on a gifted horse.   =8-O

How about a green chilli can TT2?? Say, is it straight key nite that everyone drags out there peanut whisles... 49ers, Pixies TT2s etc. or when is this event or is there one??

Steve/n0tu
----- Original Message -----
From: "James R. Duffey" <jamesd1@flash.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, November 18, 2001 1:44 PM
Subject: Tuna -Tin 2 Fun

> If you have been reading the recent posts about all the fun that people are

> having with their Tuna-Tin 2s and are wondering how you can join in,
wonder
> no longer
>
> The Tuna Tin 2 kit is available from the Ft.Smith QRP group for $12
> including shipping. See:
>
> http://www.fix.net/~jparker/norcal/bttfut/bttfut.htm
>
> No "l" this time.
>
> The Tuna Tin 2 is one of those timeless pieces of gear. Designed and built
> by Doug DeMaw, W1FB and described in the May 1976 QST, it has all the
parts
> necessary to function, but no more. A tuna fish can serves as the case. In
> an emergency catfood, pineapple, or smoked almond cans can be substituted.
> The Tuna Tin 2 was updated by Dave Meacham, W6EMD, at Doug's, KI6DS,
urging
> a few years back. They did a great job updating it with modern components
> and now it works better than the original. It will attract comments from
> whomever you show it to, ham or not.
>
> It is a good way to learn about oscillators and amplifiers. The 2 in the
> name stands for 2 transistors. The first is used as a crystal oscillator
and
> the second as a power amplifier. The manual and web page contain
> explanations of what all the parts do, so it is an ideal kit to learn why
> rigs have those 0.1 uF caps everywhere. Finger tip T/R switching is
> provided, so all you need to get on the air is a receiver. The receiver
> portion of any HF transceiver will do.
>
> So send your $12 ($15 US for DX) to:
>
> Jay Bromley W5JAY
>
> 9505 Bryn Mawr Circle
>
> Fort Smith, AR 72908-9276
>
> If you can corner Jay at a Hamfest he will sell you one for $10 as he
> doesn't have to pay the shipping. Buy him a diet Dr. Pepper for providing
> this service.
>
> Now Jay will ship 10 or more of these kits to one address for $10 a piece.
> They go together in an hour or two, are easy to trouble shoot, and make a
> good group building project.
>
> These also make great gifts, door prizes, awards, and incentive rewards

for
> upgrading. Help Santa put one of these in your favorite ham's stocking. It
> might be the ideal way to thank that Elmer that got you started in Ham
Radio
> or building.
>
> I guess that I am sounding like a bit like a shill for the Ft.Smith QRP
> group these days, but they do offer two simple ways to get into QRP
> building. Buy both. And they fund Arkiecon with the proceeds. See you at
> Arkiecon in April. - Dr. Megacycle KK6MC/5 "Radio Green Chile"
> --
> James R. Duffey KK6MC/5
> 30 Casa Loma Road
> Cedar Crest, NM 87008
>
>

Date: Sun, 18 Nov 2001 17:02:26 -0500
From: W2AGN <w2agn@pobox.com>
To: NM5Mike@aol.com,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112104] Re: KL7 on 6 meters
Message-ID: <01111817022603.31067@njbirdman>
Content-Type: text/plain;
  charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

On Sunday 18 November 2001 16:54, NM5Mike@aol.com wrote:
> Fellow QRPers:
>
> I just worked KL7HBK in grid B049 on 6 meters CW while running 5 watts into
> a dipole in my attic!
>
> This contact will certainly be a "memory maker" in my life-long amateur
> radio adventure.
>
> 73,
>
> Eric NM5M (Plano Texas)
> EM13

--

Congratulations! The last 3 days have been some great 6M openings. I even

already have QSLs from 3 of the Europeans I worked yesterday with 2W CW, thanks to eQSL. ARRL might not like them, but QRP ARCI accepts them. That makes 9 band 1000 miles per watt. If I can just get a 1000 m/w QSO on 160, I'll have all 10 bands!

      John L Sielke   W2AGN
       w2agn@pobox.com
   http://www.qsl.net/w2agn

Date: Sun, 18 Nov 2001 14:01:15 -0800
From: "Bill Jones" <kd7s@psnw.com>
To: <k5di@zianet.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112105] Re: Serious problem
Message-ID: <006201c1707c$ee509a80$598b6bd1@microsof>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Karl,

Don't give up quite yet. Often a sinus infection can cause your hearing to deteriorate to practically nothing but a few antibiotics later you're good as new. As for myself, I am seriously hearing impaired and wear two hearing aids but I can still work CW just fine.
==========
Bill Jones - KD7S <><
Sanger, California
==========
----- Original Message -----
From: "Karl F. Larsen" <k5di@zianet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, November 18, 2001 11:39 AM
Subject: Serious problem

>
> Last week my hearing dropped from bad to almost totally deaf. I
> have an appointment with a specialist Monday and will know more after that
> event.

Date: Sun, 18 Nov 2001 17:13:39 -0500
From: Doc <70511.3041@compuserve.com>
To: "\"Low Power Amateur Radio" <qrp-l@Lehigh.EDU>
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [112106] HC8N on 24.892 @ 2122
Message-ID: <200111181713_MC3-E76D-6712@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
	charset=ISO-8859-1
Content-Disposition: inline

Gang:

HC8N is ripping right along on 24.892 at 2212Z. He has great ears for QR=
P.
 Got him with 2 watts to a GAP. He is very loud in Bismarck.

73,
--Doc/K0EVZ

Date: Sun, 18 Nov 2001 17:15:43 -0500
From: Doc <70511.3041@compuserve.com>
To: "\"Low Power Amateur Radio" <qrp-l@Lehigh.EDU>
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [112107] OOPS--HC8N at *2212Z*
Message-ID: <200111181715_MC3-E76D-6721@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
	charset=ISO-8859-1
Content-Disposition: inline

Gang:

Should have said HC8N QSO was at 2212Z. He is working them fast but hear=
s
QRP very well. QSL via AA3BT.

73,
--Doc/K0EVZ

Date: Sun, 18 Nov 2001 17:26:29 -0500

From: "Anthony A. Luscre" <aluscre@neo.rr.com>
To: 70511.3041@compuserve.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112108] Re: Need *Slashed ZERO* Font
Message-ID: <200111182222.fAIMMTw26319@clmboh1-smtp3.columbus.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Download your favorite(s) from this site.

http://www.qsl.net/wa6axe/fonts.html

I suggest not using the Alt-Key 2 1 6 as that will cause problems with
many logging programs including problems with sorting and finding.

Doc wrote:

> Gang:
>
> Trying to print a QSL using John Mc's QSL Maker software. Can someone
> please send me a font which has the slashed zero in it? I used to have
> several, but have lost them to a virus. Thanks in advance for any help
> received.
>
> 73,
> --Doc/K0EVZ

--
|--------------------------|
     Anthony A. Luscre
            K8ZT
        Stow, Ohio
|--------------------------|

Date: Sun, 18 Nov 2001 15:31:31 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: <n0tu@webaccess.net>, qrp-l <qrp-l@lehigh.edu>
Subject: [112109] Re: Tuna -Tin 2 Fun
Message-ID: <B81D84D3.F0C9%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Steve - Shifting the Tuna Tin 2 to other bands is not too hard. I know several 80 M versions have been made. I do believe that modifications for the 20 M band are also around on the web. Does anybody know where?

The oscillator ciruit is a nonresonant, so that section should work just by plugging in a crystal. The output low pass filter should be changed, but that is straight forward. Use one of Doug DeMaw's designs in his notebooks, or (preferrably) design one that is correct for the application. There are several programs around that you can use to design the filter. I use L.

I think that the 49er, TT-2, SMK-1 and other rock bound rig contest was a one time thing. But since the Tuna Tin 2 is an ideal match to a straight key, maybe we should run an adjunct contest to straight key night. How about "Rock around the clock" for those rock bound rigs?

Canned green chile is an abomination once you have smelled fresh green chiles roasting. But maybe I could make the sacrifice for the sake of a "Green Chile Radio". - Dr. Megacycle KK6MC/5 "Radio Green Chile"
--
James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sun, 18 Nov 2001 14:22:13 -0800
From: Bob Nielsen <nielsen@oz.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112110] Re: Serious problem
Message-ID: <20011118142213.A2596@oz.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

On Sun, Nov 18, 2001 at 02:01:15PM -0800, Bill Jones wrote:
> Karl,
>
> Don't give up quite yet. Often a sinus infection can cause your hearing to
> deteriorate to practically nothing but a few antibiotics later you're good
> as new. As for myself, I am seriously hearing impaired and wear two hearing
> aids but I can still work CW just fine.

One of my ears developed a very narrow passband, so I tend to operate using headphones with my hearing aid removed--perfect for CW!

--

Bob Nielsen, N7XY nielsen@oz.net
Bainbridge Island, WA http://www.oz.net/~nielsen
IOTA NA-065, USI WA-028S

Date: Sun, 18 Nov 2001 17:18:10 -0500
From: hamjoel@juno.com
To: fpqrp-l@mpna.com, qrp-l@Lehigh.EDU
Subject: [112111] Guys and Jo SSTV_PLUS PROGRESS REPORT
Message-ID: <20011118.172051.-16669433.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

high, well the practice sessions on 14.227 have been going great... Marc WA4IRE makes it a point to send and receive at least one QRP PICTURE a nite....

one nite his output meter wasn't showing anything and I got his picture fine...

Guess, I should have said this is a report on the sstv_plus system used with mmsstv.... Marc has created a qrp only file on the sstv_plus yahoo web page... so if u guys/gals/Jo are up around 0300Z... tune in to 14.227 and say high and pass a qrp sstv signal along...

My personal observations are... this program helps a 5 watt sstv signal get across better... and at ten watts sstv... it's almost a certainty to get 100% copy... given at least half decent conditions...

what is funny is to see the other guy copy the picture great, then struggle with ur ssb voice signal... when conditions are margional...

U might be interested to kneaux that Marc is fast becoming a qrp fan... he sent and I received very well, a sstv pic that was in the milliwatts, low, low milliwatts one nite....

Come on guys we have a sstv spot that is "very" QRP FRIENDLY on twenty meters... and we can even see our pictures on the web if we want too....
down load the programs, the're free, come with instructions, and IT IS A still developing program, so you have a chance to give some input and possibly see ur ideas implemented into the program...

No I have no financial or other interest in mmsstv or sstv_plus.... other than it allows me to send and receive qrp 5 watt sstv signals like I was using 20 watts or more... that means more contacts for me and possibly a sstv qrp net if u guys/gals/Jo show an interest...

i SEE SNEAUX COMING SO i'M GOING BACK TO THE HOUSE....
KE1LA JOEL
IN MAINE
FREEZIN....

Date: Sun, 18 Nov 2001 17:37:46 -0500
From: "carl seyersdahl" <carlseye@tampabay.rr.com>
To: <k5zty@juno.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112112] Re: Where'd everyone go?
Message-ID: <022901c17081$a590b1e0$2e211c18@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You're fine in west central florida!!!!!
  carl / kz5ca
----- Original Message -----
From: "Bill Stietenroth" <k5zty@juno.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, November 18, 2001 4:36 PM
Subject: Where'd everyone go?

> Well, I guess I've been cut off. (no, not that,, from the qrp-l) I
> haven't gotten any
> in about a week now. Will someone tell me if I'm gettin' in?
>
> Bill, K5ZTY
> Houston,TX
>

Date: Sun, 18 Nov 2001 15:42:16 -0700
From: "Rod N0RC" <rod@n0rc.com>
To: <k5zty@juno.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112113] Re: Where'd everyone go?
Message-ID: <003301c17082$469d5520$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Folks,

----- Original Message -----
From: "Bill Stietenroth" <k5zty@juno.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, November 18, 2001 2:36 PM
Subject: Where'd everyone go?

> Well, I guess I've been cut off. (no, not that,, from the qrp-l) I
> haven't gotten any
> in about a week now. Will someone tell me if I'm gettin' in?

I've seen one too many posts like this in the past week or so. So, let me be the rabble rouser that breaks the ice, and ask the question many no doubt have in the back of their mind:

Who is the "list administrator" now? And how do we contact them?

According to many, email sent to manager@qrp.lehigh.edu goes unanswered.

How do problems like Bill's get resolved in a timely manner?

What is going on, that is causing these problems?

My feeling is that it is a shared problem between Lehigh facilities and the various ISPs we use. There is a lot of activity going at large sites and ISPs to filter spam email. It's possible that those efforts are causing email to, or from, QRP-L to be "trashed".

In the absence of sound technical data I can only offer this advice.

1. Continue to write manager@qrp.lehigh.edu explaining the problem as best as possible.

2. Contact the "customer support" organization of your ISP. Perhaps they can, or will be willing, to help you resolve, or at least identify a problem. (Be prepared to supply at least one email from and/or to qrp-l@lehigh.edu WITH COMPLETE EMAIL HEADERS)

3. Consider also, your email client configuration. Have you recently

made changes to any filters you have to kill or sort email?

Have you changed ISPs? Did you change your QRP-L subscription address? QRP-L only accepts email from the address you used when you subscribed.

Have you changed email programs recently? Is it set to send ASCII. One common mistake is sending email in HTML format. This link:

http://www.geocities.com/CapitolHill/1236/nomime.html

will take you to a site that will help you configure your email to send only ASCII messages.

Hope this helps.

73, Rod N0RC
Ft Collins, CO

Date: Sun, 18 Nov 2001 17:48:09 -0500
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Cc: <k5zty@juno.com>
Subject: [112114] Re: Where'd everyone go?
Message-ID: <002601c17083$19a2a240$010044c0@baycty1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I dunno what we do for a list admin these days, somebody must know.

BUT, the list is receiving Bill's posts and reflecting them, so clearly the list thinks he is a member. While it is possible that the list just isn't sending to him, that is pretty unlikely.

Sometimes, because of the volume of postings, an ISP thinks QRP-L is a spammer and filters messages from the list to "protect" the subscribers. Many of those I've seen lately seem to come from juno.com, so quite likely that is what is happening.

Bill, check with your sysadmin at Juno and see what gives.

72/73 de WB8RCR http://members.home.com/wb8rcr/index.htm
didileydadidah QRP-L #1446 Code Warriors #35

----- Original Message -----
From: "Rod N0RC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, November 18, 2001 5:42 PM
Subject: Re: Where'd everyone go?

Date: Sun, 18 Nov 2001 17:50:17 -0500
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112115] Oh I forgot!
Message-ID: <003201c17083$6624d0c0$010044c0@baycty1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Meant to add the obligatory QRP to the previous.

Just nabbed YU1AAO near Belgrade with 500mw and the ol' K1. That Elecraft mojo makes it like shooting fish in a barrel.

72/73 de WB8RCR http://members.home.com/wb8rcr/index.htm
didileydadidah QRP-L #1446 Code Warriors #35

Date: Sun, 18 Nov 2001 18:00:18 -0500
From: Doc <70511.3041@compuserve.com>
To: "\"Low Power Amateur Radio" <qrp-l@Lehigh.EDU>
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [112116] F6AUS/HI9 on 18.074.75 @ 2255
Message-ID: <200111181800_MC3-E76D-67E3@compuserve.com>
MIME-Version: 1.0

Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
         charset=ISO-8859-1
Content-Disposition: inline

Gang:

F6AUS/HI9 is calling CQ on 18.074.75 at 2255Z. Has great ears, picking u=
p
my 2 watts (K2) to a GAP Titan vertical dipole. Go get him, everyone. H=
e
just started this run on 17 Metres.

73,
--Doc/K0EVZ

Date: Sun, 18 Nov 2001 18:22:25 -0500
From: "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
To: <70511.3041@compuserve.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [112117] RE: F6AUS/HI9 on 18.074.75 @ 2255
Message-ID: <GCECIJFJPOHMCKACOAOBOEDKDBAA.jakecart@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks Doc -- I got him :-)

Jake -- N4UY

-----Original Message-----
From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
Doc
Sent: Sunday, November 18, 2001 6:00 PM
To: Low Power Amateur Radio Discussion
Subject: F6AUS/HI9 on 18.074.75 @ 2255

Gang:

F6AUS/HI9 is calling CQ on 18.074.75 at 2255Z. Has great ears, picking up
my 2 watts (K2) to a GAP Titan vertical dipole. Go get him, everyone. He
just started this run on 17 Metres.

73,

--Doc/K0EVZ

Date: Sun, 18 Nov 2001 12:00:23 -0700 (MST)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-l@lehigh.edu
Subject: [112118] Leonid meteors over NM
Message-ID: <Pine.SUN.4.10.10111181150120.12683-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
I started doing 15 minute checks on the skies starting about 11pm, hoping to catch some dramatic "earth grazers" before the actual meteor shower began. Activity was fairly slow between 11pm-2am, with counts here about 4-10 per minute and few real bright bunrners. Activity here really kicked in about 0230 (MST) and peaked between 3-4am, with counts in excess of 80 per minute. Things started to wane around 0430, and went to bed shortly after that.

The 3-4am window was very spectacular, equal in numbers to some meteor shower I witness back around 1967 ?. That particular shower "rained" more dramatically than last night, but last night, the meteorites were clearly much brighter. There were times where several meteorites were in your field of view at a time, with at least one very bright one per minute. Twice, I witnessed one so bright I saw the street lights in nearby Polvadera, NM extinguish!

To answer a question raised a couple of times on qrp-l, it is very unlikely you will see much tonight. When the earth flies through the dust cloud causing these meteor showers, it generally takes only a few hours to pass through it. There will only be the fringes of the dust cloud 24 hours later. Activity tonight might be a bit higher than normal background activity (a few per hour), but not by much.

It was indeed a spectacular meteor shower from what I saw and the testimony of others. Unusual that astronomers predict something that comes out this true -hi. Ooops, that's right ... I work with those critters. Better be polite.

Hope many of you got to enjoy the show.

72, Paul NA5N

Date: Sun, 18 Nov 2001 11:48:01 -0700 (MST)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: Ed Kessler <edkess@pa.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112119] Re: IRF510 vs. IRF511??
Message-ID: <Pine.SUN.4.10.10111181047220.12683-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 16 Nov 2001, Ed Kessler wrote:
> I went to the local Radio Shack looking for some IRF510s. They didn't have
> any, but stocked IRF511s so I bought a couple anyway. ECG crosses both to
> 2382.
>
> Are these interchangeable, or are there some significant differences?

The IRF510's made in the U.S. are made by Motorola, Harris and International-Rectifier Corp. (I-R). I-R makes the "dies" for ALL of the IRF series, and these dies are then packaged by Motorola and Harris, and of course I-R themselves. So first, it makes little difference where you get your IRF mosfets, they all originate from the same die maker. Radio Shack is the big exception -- see below.

Now when I-R makes their IRF510's, they are made a thousand at a time on a single die, then cut up into individual dies afterwards. The thickness varies across the die, such that the substrate tends to be a bit thicker in the middle, and bit thinner at the edges. The thickness of the substrate determines the voltage and breakdown ratings of the device, with most other things (such as drain current vs. gate voltage) remaining the same. So when they cut them up, the ones coming from the center of the die are the IRF510's with the highest voltage rating, followed by the IRF511, and finally the IRF512's, cut from the edges of the die with the lowest voltage ratings.

For our QRP applications (Vcc <24V, Id<3A), there is virtually no difference in performance between the IRF510 511, or 512. If you look in a mosfet data book, this is why you will notice each series is numbered this way (IRF510,511,512 ... IRF520,521,522, etc.). The devices within each family is about the same except the voltage ratings.

International Rectifier invented the vertical structure mosfets, such as the IRF510, and licenses others to make them as well, in addition to providing the dies to Motorola and Harris as stated above. There are also some "illegal" offshore IC manufacturers that make the IRF series without proper licensing agreement, and thus are pirated versions to

one extent or another. Such an example is an offshore company in Haiti.
This is where Radio Shack gets their IRF510's, which prompted legal
action by I-R against Radio Shack for marketting under "their" name.
As a result, Radio Shack changed the designation of these devices to
satisfy the legal action ... so if you look close at your IRF510
purchased from Radio Shack, you will see it is actually labeled "IFR510"
(reversing the letters IRF to IFR) on the packaging.

I have done some exhaustive testing on all of these IRF510 and IRL520
series devices for several class-E and class F QRP amplifiers. They
all work fairly consistent, with the largest parameter that tends to
vary from one device to the next is the gate-drain transfer
characeristics. That is, the exact gate voltage that cause drain current
to start to conduct varies from about 3.5 to 4.2v (quite a range). This
is why on some of the published circuits using IRF510's for the PA, one
individual will get 7W output and other a mere 3W ... it all depends on
what gate voltage drain current occurs. And the higher the gate
voltage required, the higher the gate input capacitance. And with
average gate capacitance around 200pF, you certainly don't want anymore
than that if you can avoid it :-) (The input capacitance will determine
the highest frequency it will operate at, and of course the overall
input capacitance for impedance matching concerns).

I have found the Radio Shack IFR510's to be fair devices and fairly
close to the I-F/Motorola/Harris type IRF510's. Their largest problem
is even a wider range in gate voltage, varying input capacitance unit-
to-unit, and a tendency to break into weird oscillations, dominantly
around 8-9MHz and some UHF stuff as well.

For class E or F operation, you want to drive the gate heavy to cause
full "on" conduction, known as "full ohmic on conduction." This occurs
somewhere around 10-12V gate voltage on the IRF510. At this point,
there is <1 ohm between source and drain for very efficient operation
since there is little voltage drop across the mosfet, leaving more
power delivered to the load (antenna). It also means the device is sinking
3-4Amps! Thus, efficient operation is obtained by sending very narrow
pulses to the gate so the drain current only flows for <25% of the time,
so your AVERAGE current is <1A to make 5-8W for high efficiency. This
also means the output filtering between the IRF510 and the antenna must
be different to account for the very low impedance of the mosfet getting
converted up to 50 ohms, and setting values to ensure the drain inductance
current is totally exhausted before the next gate drive comes along.
On my favorite version, I control the output power, from about .5W to
10W, by varying the pulse width from about 5% to 20% with a front panel
control. This also keeps the input impedance relatively constant.

But most IRF510 PA circuits you see are class C, that is, operating the
mosfet in the linear region (from drain current turn on to before the

full ohmic-on region). This works fine, except lots of power is dropped across the source-drain junction, which is why they get so darned hot at 5W, and generally at 60-65% efficiency. And if you feed the gate with a sinewave, you are spending most of your time and power charging up the gate capacitance before the drain current finally starts to flow.

So my suggestion with using ANY flavor of IRF510-512 is to capacitively couple your RF drive to the gate and have the means to vary the dc voltage on the gate, such as a 10-20K pot from +12V to ground. Set the pot at the 0V end, then start increasing - monitoring the gate dc voltage and the drain voltage. When you get around 3.5-4V on the gate, you will see your drain voltage start to drop ... drain current is now flowing. Back off on this pot a bit (like 100mV less than when current starts to flow) to set your static gate bias voltage to ensure no current flow with no gate drive. Then when you apply proper RF drive on keydown, drain current will start to flow almost immediately, producing the optimum RF output for class C. This procedure needs only be done when installing a new power mosfet. This procedure also helps prevent over driving the gate (>8V) to keep it from going into the full-ohmic on region. This is the main culpritt why some people fry their IRF510 after only a few seconds of key down. In this region, you are are drawing 3-4A (or the limit of your power supply) that just melts that little die in short order. Usually in the form of a "POP" followed by smoke escaping from the cracked TO-220 case!

Sorry for the rambling, but perhaps it helps explain a few things about the IRF510 series mosfets. They do make nice PA's for QRP transmitters with a little care and understanding how they REALLY work. I have 3 versions of a high efficiency IRF510, which I need to do some more lab testing on to measure final phase noise, harmonic attenuation, etc., then plan to make the schematics available shortly. It makes for a fairly simple transmitter with few tuned circuits. Bob Berlyn has agreed to post them on his HB Electronics website when I get around to doing the schematics and tutorial.

And FINALLY ... according to several conversations I have had with I-R application engineers, the IRF510 is clearly the most manufactured power mosfet in the world. I-R just whomps them out on a regular schedule. And do you know what the #1 use for these IRF510's are for ... and what they were first designed for? They are heavily used in commercial switching power supplies, etc., but the number one use is by the auto industry ... each GM and Ford auto has over a dozen IRF510's as the "relays" for the turn signal blinkers, voltage regulator and turning on warning lamps on the dash! The I-R engineers about fainted when I told them I was using them at 7, 10 and 14MHz. So it seems these neat little mosfets will not likely disappear any time soon, as long as cars keep coming with turn signals :-)

72, Paul NA5N

Date: Sun, 18 Nov 2001 18:31:59 -0500
From: Doc <70511.3041@compuserve.com>
To: "\"Low Power Amateur Radio" <qrp-l@Lehigh.EDU>
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [112120] F6AUS/HI9 on 10.104.85 @ 2323Z
Message-ID: <200111181832_MC3-E768-BD9A@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
         charset=ISO-8859-1
Content-Disposition: inline

Gang:

F6AUS/HI9 has QSYed yet again. Just bagged him on 10.104.85 with 5 watts=

from the K2/GAP. Might have gotten him with less. He is only about 559
copy here in Bismarck, but many callers are quite loud here.

73,
--Doc/K0EVZ

Date: Sun, 18 Nov 2001 18:45:02 -0500
From: "Howard Kraus" <K2UD@adelphia.net>
To: <wb8rcr@arrl.net>
Cc: <qrp-l@Lehigh.EDU>
Subject: [112121] Re: Where'd everyone go?
Message-ID: <003d01c1708b$0b2195c0$9e613018@buf.adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I receive posts from the list, subscribed to it, but cannot post to UNLESS I
cc: to the list. Even that doesn't work some time as evidenced today
(replied to someone, cc'ed the list, no show).

WHERE IS THE LIST MANAGER? REPEAT, WHERE IS THE LIST MANAGER?

Seems like a lot of folks need help and can't get it.

72 es TNX

Howard Kraus, K2UD
----- Original Message -----
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, November 18, 2001 5:48 PM
Subject: Re: Where'd everyone go?

> I dunno what we do for a list admin these days, somebody must know.
>
> BUT, the list is receiving Bill's posts and reflecting them, so clearly
the
> list thinks he is a member. While it is possible that the list just isn't
> sending to him, that is pretty unlikely.
>
> Sometimes, because of the volume of postings, an ISP thinks QRP-L is a
> spammer and filters messages from the list to "protect" the subscribers.
> Many of those I've seen lately seem to come from juno.com, so quite likely
> that is what is happening.
>
> Bill, check with your sysadmin at Juno and see what gives.
>
> 72/73 de WB8RCR   http://members.home.com/wb8rcr/index.htm
> didileydadidah   QRP-L #1446 Code Warriors #35
>
> ----- Original Message -----
> From: "Rod N0RC" <rod@n0rc.com>
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> Sent: Sunday, November 18, 2001 5:42 PM
> Subject: Re: Where'd everyone go?
>

Date: Sun, 18 Nov 2001 16:52:28 -0700
From: "bob baxter" <rbaxter@cybertrails.com>
To: <k5di@zianet.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112122] Re: Serious problem
Message-ID: <00e701c1708c$1bee02c0$fc142aa2@bobbaxte>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Subject: Serious problem

>
> Last week my hearing dropped from bad to almost totally deaf.

Karl,
    I lost a lot of my hearing and word perception when I took a high db shot in both ears while testing my smk-1. (it had an inop muting circuit) It left me unable to work voice communications but I can get by with cw ok if the band noise isn't too bad. A few weeks ago a member of this list recommended a set of Koss ear buds called "The Plug". They have a long, soft rubber extension that injects the sound deep into the ear canal. You can see them at
http://www.koss.com/koss/kossweb.nsf/JTdispSuperBuild?ReadForm&THEPLUG|Portable
They are about $20 with s&h and they are working very well for me. Good luck.
Bob Baxter AA7EQ
Bisbee, Az.

End of QRP-L Digest 2377
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